EXHIBIT 53

	Page 1
1	IN THE UNITED STATES DISTRICT COURT
2	FOR THE DISTRICT OF NEW JERSEY
3	
4	
5	IN RE: JOHNSON & JOHNSON MDL NO.:
6	TALCUM POWDER PRODUCTS 16-2738 (MAS)(RLS)
7	MARKETING, SALES PRACTICES,
8	AND PRODUCTS LIABILITY
9	LITIGATION
10	
11	
12	EXPERT DEPOSITION OF
13	BERNARD L. HARLOW, PHD
14	
15	Tuesday, April 9, 2024
16	9:27 a.m. Eastern Time
17	
18	
19	
20	
21	
22	
23	Reported by: Denise Dobner Vickery, CRR, RMR
24	JOB NO.: 6474272

1	Page 2	1	Page 4
1		1	APPEARANCES:
$\frac{2}{2}$		2	E M. A. District
3		3	For New Jersey Plaintiffs:
4		4	ANAPOL WEISS
5		5	BY: TRACY A. FINKEN, ESQ.
6		6	One Logan Square
7		7	130 N. 18th Street, Suite 1600
8	Tuesday, April 9, 2024	8	Philadelphia, PA 19103
9	9:27 a.m. Eastern Time	9	215.735.0773
10		10	tfinken@anapolweiss.com
11	Expert Deposition of BERNARD L.	11	
12	HARLOW, PHD, held at the offices of:	12	
13		13	
14	ASHCRAFT & GEREL LLP	14	For Defendants Johnson & Johnson and Johnson &
15	1825 K Street NW	15	Johnson Consumer Inc.:
16	Suite 700	16	SHOOK HARDY & BACON LLP
17	Washington, DC 20006	17	BY: MARK C. HEGARTY, ESQ.
18		18	2555 Grand Blvd.
19		19	Kansas City, MO 64108
20	Pursuant to notice, before Denise	20	816.474.6550
21	Dobner Vickery, Certified Realtime Reporter,	21	mhegarty@shb.com
22	Registered Merit Reporter, and Notary Public in	22	
23	and for the District of Columbia.	23	
24		24	
	Page 3		Page 5
1	APPEARANCES:	1	INDEX
2		2	EXAMINATION OF BERNARD L. HARLOW, PHD PAGE
3	For Plaintiffs:	3	BY MR. HEGARTY 12
4	LEVIN PAPATONIO RAFFERTY PROCTOR	4	AFTERNOON SESSION 218
5	BUCHANAN O'BRIEN BARR & MOUGEY, PA	5	BY MR. TISI 418
6	BY: CHRISTOPHER V. TISI, ESQ.	6	FURTHER BY MR. HEGARTY 500
7	316 South Baylen Street, Suite 600	7	
8	Pensacola, FL 32502-5996	8	HARLOW DEPOSITION EXHIBITS
9	850.435.7999	9	NUMBER DESCRIPTION PAGE
10	ctisi@levinlaw.com		EXHIBIT 1 Harlow's 2 Binders of Documents 15
11			EXHIBIT 2 Harlow Invoices No. 1 - 3 20
12			EXHIBIT 3 Harlow Curriculum Vitae March 2024 42
13	For MDL Plaintiffs:		EXHIBIT 4 Plaintiff's Designation of 60
14	ASHCRAFT & GEREL LLP	14	Affirmative Experts
15	BY: MICHELLE A. PARFITT, ESQ.		EXHIBIT 5 Expert Report of Bernard L. 76
16	1825 K Street NW, Suite 700	16	Harlow, Ph.D. and Kenneth J.
17	Washington, DC 20006	17	Rothman, Dr.P.H. November 15, 2023
18	202.759.7648		EXHIBIT 6 Genital Talc Exposure and Risk 83
19			*
	mparfitt@ashcraftlaw.com	19	Of Ovarian Cancer, Cramer et al 1998
20			EXHIBIT 7 The International Society of 92
21		21	Regulatory Toxicology and
22		22	Pharmacology and the US FDA
100			
23 24		23 24	A Workshop, Talc: Consumer Uses and Health Perspectives, January 31, 1994

1 2 3 4 5 6 7 8	Page 6 EXHIBIT 8 Talc: Consumer Uses and Health Perspectives, C. Jelleff Carr, Executive Summary, October 1, 1994	1 2	Page 8 EXHIBIT 22 Genital powder exposure and the 332 risk of epithelial ovarian cancer,
2 3 4 5 6 7	Perspectives, C. Jelleff Carr,	2	
3 4 5 6 7	-		risk of edimenal ovarian cancer.
4 5 6 7		3	Rosenblatt et al, 12 February 2011
5 6 7	EXHIBIT 9 Interpretation of Epidemiologic 98	4	EXHIBIT 23 Genital Powder Use and Risk of 341
6	Studies on Talc and Ovarian Cancer	5	Ovarian Cancer: A Pooled Analysis of
7	Rothman et al, November 28, 2000	6	8,525 Cases and 9,859 Controls,
	EXHIBIT 10 Association between Body Powder 161	7	Terry et al, August 2013
0	Use and Ovarian Cancer: The	8	EXHIBIT 24 Migration of Talc From the 349
9	African American Cancer Epidemiology	9	Perineum to Multiple Pelvic Organ
10	Study (AACES), Schildkraut et al 2016	10	Sites, Five Case Studies With
11	EXHIBIT 11 Genital Powder Use and Risk of 166	11	Correlative Light and Scanning
12		12	Electron Microscopy, McDonald et al
13	Epithelial Ovarian Cancer in the Ovarian Cancer in Women of African	13	November 2019
		l	
14	Ancestry Consortium, Davis et al 2021 EXHIBIT 12 A Review of Perineal Talc 171	14	EXHIBIT 25 President's Task Force Statement 361
15		15	on Statistical Significance and
16	Exposure and Risk of Ovarian Cancer	16	Replicability, 1 August 2021, ASA
17	Harlow and Hartge, October 1, 1994	17	EXHIBIT 26 JAMA 2020, Association of Powder 368
18	EXHIBIT 13 Prospective Study of Talc Use 180	18	Use in the Genital Area With Risk of
19	and Ovarian Cancer, Gertig et al	19	Ovarian Cancer, O'Brien et al
20	February 2, 2000	20	EXHIBIT 27 Use of Powder in the Genital Area 373
21	EXHIBIT 14 Serous Ovarian Cancer Caused by 194	21	and Ovarian Cancer Risk, Examining
22	Exposure to Asbestos and Fibrous	22	the Evidence, Gossett and del Carmen
23	Talc in Cosmetic Talc Powders -	23	JAMA January 7, 2020
24	A Case Series, Steffen et al Feb 2000	24	
	Page 7		Page 9
1	EXHIBIT 15 Talc/FDA Website. What's New 245	1	EXHIBIT 28 Comment & Response, Genital 379
2	December 7, 2022	2	Powder Use and Ovarian Cancer
3	EXHIBIT 16 DHHS Letter of April 1, 2014 to 249	3	JAMA May 26, 2020
4	Cancer Prevention Coalition re	4	EXHIBIT 29 Data on systematic review and 398
5	Denial of Citizen Petitions of	5	meta-analysis of epidemiologic
6	November 17, 1994 and May 13, 2008	6	evidence on the association between
7	EXHIBIT 17 NCI Ovarian, Fallopian Tube, and 270	7	perineal use of talc powder and risk
8	Primary Peritoneal Cancers	8	of ovarian cancer, Taher et al,
9	Prevention (PDQ®) - Health	9	5 February 2020
10	Professional Version, March 6, 2024	10	EXHIBIT 30 Critical review of the 398
11	EXHIBIT 18 NCI PDQ® Screening and Prevention 276	11	association between perineal use
12	Editorial Board, February 28, 2024	12	of talc powder and risk of ovarian
13	EXHIBIT 19 Association Between the Frequent 285	13	cancer, Taher et al, 23 August 2019
14	Use of Perineal Talcum Powder	14	
15	Products and Ovarian Cancer: a	15	
16	Systematic Review and Meta-analysis	16	
17	Woolen et al, February 2, 2022	17	
18	EXHIBIT 20 Risk Factors of Epithelial 296	18	
19	Ovarian Cancer by Histologic	19	
20	Subtype, Gates et al, 2010	20	
	EXHIBIT 21 Perineal use of talc and risk of 326	21	
	ovarian cancer, Langseth et al	22	
22	, 2	l	
	15 October 2007	23	

	Page 10		Page 12
1	PLAINTIFF'S DEPOSITION EXHIBITS	1	PROCEEDINGS
2	NUMBER DESCRIPTION PAGE	$\frac{1}{2}$	TROCLEDINGS
3	EXHIBIT P1 The association between douching, 421	3	BERNARD L. HARLOW, PHD
4		4	called for examination, and, after having been
	genital talc use, and the risk of	5	duly sworn, was examined and testified as
5	prevalent and incident cervical	6	follows:
6	cancer, O'Brien et al, 2021 EXHIBIT P2 A Case-Control Study of 429	7	lollows.
7 8	Borderline Ovarian Tumors:	8	EXAMINATION
	The Influence of Perineal	9	LAAMINATION
9		-	BY MR. HEGARTY:
10	Exposure to Talc, Harlow	11	Q. Good morning, Dr. Harlow.
11	and Weiss, February 28, 1989 EXHIBIT P3 Perineal Exposure to Talc and 432	12	A. Good morning.
12		13	Q. Would you please tell us your full
13	Ovarian Cancer Risk, Harlow et al		name?
14	July 1992	15	A. Bernard L. Harlow.
15	EXHIBIT P4 Talc: Consumer Uses and Health 437	16	Q. Have you ever given a deposition
16	Perspectives, C. Jelleff Carr		before?
17	October 1, 1994	18	A. I have not.
18	EXHIBIT P5 A Review of Perineal Talc 443	19	Q. Have you ever read any deposition
19	Exposure and Risk of Ovarian Cancer,		transcript?
20	Harlow and Hartge, October 1, 1994	21	A. Yes.
21	EXHIBIT P6 Genital Talc Exposure and Risk 454	$\begin{vmatrix} 21\\22\end{vmatrix}$	Q. How many deposition transcripts have
22	of Ovarian Cancer,		you read prior to today?
23	Cramer et al, 1999	24	A. Maybe three.
24		24	A. Maybe tillee.
1	Page 11	1	Page 13
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	EXHIBIT P7 Interpretation of Epidemiologic 467 Studies on Talc and Ovarian Cancer,	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Q. Do you recall the deponents in those transcripts?
$\frac{2}{3}$	Rothman et al, November 28, 2000	$\frac{2}{3}$	A. I believe I read I read more
4	EXHIBIT P8 Association of genital talc and 477	4	Moor
5	douche use in early adolescence or	5	Q. You can't look at him.
6	adulthood with uterine fibroids	6	A. Okay. I'm just I'm just
7	diagnoses, Ogunsina et al,	_	Moorman I believe I read.
8	December 2023	8	Q. Patricia Moorman?
9	EXHIBIT P9 Federal Register, 40 CFR 482	9	A. Patricia Moorman. I can't remember
10	Part 751 Asbestos Part 1;		her name.
11	Chrysotile Asbestos; Regulation of	11	Q. It's okay if you cannot remember.
12	Certain Conditions of Use Under	12	A. I can't remember. I can't remember
13	the Toxic Substances Control Act		the names.
14	(TSCA), March 28, 2024	14	Q. You can only recall Dr. Moorman's?
15	(1801), 1141011 20, 2021	15	A. I recall Dr. Moorman, and there was
16			one that was more recent. I mean, I could I
17		1	just I can't remember the name.
18		18	MR. TISI: Can I just and let
19		19	me just say this because this is the
20		20	first time you have testified, and I just
21		21	want to make sure.
22		22	He's going to be asking
23		23	questions. Normally we kind of
24		24	anticipate questions and we talk over
1 47		'	and pare questions and no tain over

	Page 14		Page 16
1	each other.	1	
2	It makes the record a lot	2	you bring any other materials with you to today's
3	easier for for Denise here if you	3	
4	allow allow Mr. Hegarty to finish his	4	-
5	question and then give an answer, and I	5	Q. Did you prepare any notes in
6	will make sure that Mr. Hegarty lets you	6	
7	finish your answer before he starts his	7	
8	next question.	8	•
9	THE WITNESS: Sure.	9	
10	MR. HEGARTY: And I will cover	10	Did you prepare any documents
11	that, too, but thank you.	11	besides your expert report for purposes of your
12	THE WITNESS: I'm sorry that		work on this case?
13	I forgot the name.	13	
1	BY MR. HEGARTY:	14	•
15	Q. When did you read Dr. Moorman's	15	- · · · · · · · · · · · · · · · · · · ·
	deposition transcript?	16	Health.
17	A. Probably within the last month.	17	Q. Do you have a separate personal
18	Q. Who did you receive that transcript	18	consulting business for litigation like an LLC?
19	and the other two transcripts from?	19	
20	A. From Dr I mean, Mr. Tisi.	20	Q. Do you run your expert witness work
21	Q. Did you make a request for those	21	through that LLC?
1	transcripts?	22	
23	A. I believe I indicated that it would	23	Q. What is the name of that LLC?
1	be helpful, since I had never been deposed before,	24	
	Page 15		Page 17
1	to have a sense of the process.	1	Q. How long have you had that LLC?
2	Q. What Mr. Tisi just said and as you	2	A. About six months.
	the state of the s		
3	just mentioned the process, it's important that	3	
	you and I speak one at a time, that we speak	3 4	Q. Did you set that LLC up in
4	7		Q. Did you set that LLC up in connection with your work on this litigation?
4 5	you and I speak one at a time, that we speak	4	Q. Did you set that LLC up in connection with your work on this litigation? A. Yes.
4 5	you and I speak one at a time, that we speak audibly, and that you understand the questions	4 5 6	Q. Did you set that LLC up in connection with your work on this litigation? A. Yes.
4 5 6 7	you and I speak one at a time, that we speak audibly, and that you understand the questions that I ask before you answer.	4 5 6	Q. Did you set that LLC up in connection with your work on this litigation?A. Yes.Q. Do the fees that you earn as an expert witness go directly to you?
4 5 6 7	you and I speak one at a time, that we speak audibly, and that you understand the questions that I ask before you answer. Are you good with all of those sort	4 5 6 7	 Q. Did you set that LLC up in connection with your work on this litigation? A. Yes. Q. Do the fees that you earn as an expert witness go directly to you? A. Yes.
4 5 6 7 8	you and I speak one at a time, that we speak audibly, and that you understand the questions that I ask before you answer. Are you good with all of those sort of ground rules? A. Yes.	4 5 6 7 8 9	 Q. Did you set that LLC up in connection with your work on this litigation? A. Yes. Q. Do the fees that you earn as an expert witness go directly to you? A. Yes.
4 5 6 7 8 9 10	you and I speak one at a time, that we speak audibly, and that you understand the questions that I ask before you answer. Are you good with all of those sort of ground rules? A. Yes.	4 5 6 7 8 9	 Q. Did you set that LLC up in connection with your work on this litigation? A. Yes. Q. Do the fees that you earn as an expert witness go directly to you? A. Yes. Q. Do you have any other sources of
4 5 6 7 8 9 10	you and I speak one at a time, that we speak audibly, and that you understand the questions that I ask before you answer. Are you good with all of those sort of ground rules? A. Yes. Q. Did you bring any documents with you	4 5 6 7 8 9 110	Q. Did you set that LLC up in connection with your work on this litigation? A. Yes. Q. Do the fees that you earn as an expert witness go directly to you? A. Yes. Q. Do you have any other sources of income besides the salary you get from Boston
4 5 6 7 8 9 10 11	you and I speak one at a time, that we speak audibly, and that you understand the questions that I ask before you answer. Are you good with all of those sort of ground rules? A. Yes. Q. Did you bring any documents with you to today's deposition?	4 5 6 7 8 9 110	Q. Did you set that LLC up in connection with your work on this litigation? A. Yes. Q. Do the fees that you earn as an expert witness go directly to you? A. Yes. Q. Do you have any other sources of income besides the salary you get from Boston University and whatever you earn as an expert witness?
4 5 6 7 8 9 10 11 12	you and I speak one at a time, that we speak audibly, and that you understand the questions that I ask before you answer. Are you good with all of those sort of ground rules? A. Yes. Q. Did you bring any documents with you to today's deposition? A. Yes.	4 5 6 7 8 9 10 11 12	Q. Did you set that LLC up in connection with your work on this litigation? A. Yes. Q. Do the fees that you earn as an expert witness go directly to you? A. Yes. Q. Do you have any other sources of income besides the salary you get from Boston University and whatever you earn as an expert witness? A. No.
4 5 6 7 8 9 10 11 12 13 14	you and I speak one at a time, that we speak audibly, and that you understand the questions that I ask before you answer. Are you good with all of those sort of ground rules? A. Yes. Q. Did you bring any documents with you to today's deposition? A. Yes. Q. What documents did you bring?	4 5 6 7 8 9 10 11 12 13 14	Q. Did you set that LLC up in connection with your work on this litigation? A. Yes. Q. Do the fees that you earn as an expert witness go directly to you? A. Yes. Q. Do you have any other sources of income besides the salary you get from Boston University and whatever you earn as an expert witness? A. No.
4 5 6 7 8 9 10 11 12 13 14 15	you and I speak one at a time, that we speak audibly, and that you understand the questions that I ask before you answer. Are you good with all of those sort of ground rules? A. Yes. Q. Did you bring any documents with you to today's deposition? A. Yes. Q. What documents did you bring? A. Manuscripts of previously published	4 5 6 7 8 9 110 11 12 13 14 15	Q. Did you set that LLC up in connection with your work on this litigation? A. Yes. Q. Do the fees that you earn as an expert witness go directly to you? A. Yes. Q. Do you have any other sources of income besides the salary you get from Boston University and whatever you earn as an expert witness? A. No. Q. You are charging Mr. Tisi and other
4 5 6 7 8 9 10 11 12 13 14 15	you and I speak one at a time, that we speak audibly, and that you understand the questions that I ask before you answer. Are you good with all of those sort of ground rules? A. Yes. Q. Did you bring any documents with you to today's deposition? A. Yes. Q. What documents did you bring? A. Manuscripts of previously published papers and a few other publicly available	4 5 6 7 8 9 110 11 12 13 14 15	Q. Did you set that LLC up in connection with your work on this litigation? A. Yes. Q. Do the fees that you earn as an expert witness go directly to you? A. Yes. Q. Do you have any other sources of income besides the salary you get from Boston University and whatever you earn as an expert witness? A. No. Q. You are charging Mr. Tisi and other attorneys representing plaintiffs \$600 an hour for your time; is that correct?
4 5 6 7 8 9 10 11 12 13 14 15 16 17	you and I speak one at a time, that we speak audibly, and that you understand the questions that I ask before you answer. Are you good with all of those sort of ground rules? A. Yes. Q. Did you bring any documents with you to today's deposition? A. Yes. Q. What documents did you bring? A. Manuscripts of previously published papers and a few other publicly available information.	4 5 6 7 8 9 110 11 12 13 14 15 16	Q. Did you set that LLC up in connection with your work on this litigation? A. Yes. Q. Do the fees that you earn as an expert witness go directly to you? A. Yes. Q. Do you have any other sources of income besides the salary you get from Boston University and whatever you earn as an expert witness? A. No. Q. You are charging Mr. Tisi and other attorneys representing plaintiffs \$600 an hour for your time; is that correct? A. That's correct.
4 5 6 7 8 9 10 11 12 13 14 15 16 17	you and I speak one at a time, that we speak audibly, and that you understand the questions that I ask before you answer. Are you good with all of those sort of ground rules? A. Yes. Q. Did you bring any documents with you to today's deposition? A. Yes. Q. What documents did you bring? A. Manuscripts of previously published papers and a few other publicly available information. Q. Are those materials contained in the	4 5 6 7 8 9 110 11 12 13 14 15 16 17 18	Q. Did you set that LLC up in connection with your work on this litigation? A. Yes. Q. Do the fees that you earn as an expert witness go directly to you? A. Yes. Q. Do you have any other sources of income besides the salary you get from Boston University and whatever you earn as an expert witness? A. No. Q. You are charging Mr. Tisi and other attorneys representing plaintiffs \$600 an hour for your time; is that correct? A. That's correct.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	you and I speak one at a time, that we speak audibly, and that you understand the questions that I ask before you answer. Are you good with all of those sort of ground rules? A. Yes. Q. Did you bring any documents with you to today's deposition? A. Yes. Q. What documents did you bring? A. Manuscripts of previously published papers and a few other publicly available information. Q. Are those materials contained in the two notebooks sitting in front of you?	4 5 6 7 8 9 110 11 12 13 14 15 16 17 18	Q. Did you set that LLC up in connection with your work on this litigation? A. Yes. Q. Do the fees that you earn as an expert witness go directly to you? A. Yes. Q. Do you have any other sources of income besides the salary you get from Boston University and whatever you earn as an expert witness? A. No. Q. You are charging Mr. Tisi and other attorneys representing plaintiffs \$600 an hour for your time; is that correct? A. That's correct. Q. Do you charge a different rate for testimony versus your review of materials?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	you and I speak one at a time, that we speak audibly, and that you understand the questions that I ask before you answer. Are you good with all of those sort of ground rules? A. Yes. Q. Did you bring any documents with you to today's deposition? A. Yes. Q. What documents did you bring? A. Manuscripts of previously published papers and a few other publicly available information. Q. Are those materials contained in the two notebooks sitting in front of you? A. Yes.	4 5 6 7 8 9 110 11 12 13 14 15 16 17 18 19 20	Q. Did you set that LLC up in connection with your work on this litigation? A. Yes. Q. Do the fees that you earn as an expert witness go directly to you? A. Yes. Q. Do you have any other sources of income besides the salary you get from Boston University and whatever you earn as an expert witness? A. No. Q. You are charging Mr. Tisi and other attorneys representing plaintiffs \$600 an hour for your time; is that correct? A. That's correct. Q. Do you charge a different rate for testimony versus your review of materials?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	you and I speak one at a time, that we speak audibly, and that you understand the questions that I ask before you answer. Are you good with all of those sort of ground rules? A. Yes. Q. Did you bring any documents with you to today's deposition? A. Yes. Q. What documents did you bring? A. Manuscripts of previously published papers and a few other publicly available information. Q. Are those materials contained in the two notebooks sitting in front of you? A. Yes. MR. HEGARTY: I will designate	4 5 6 7 8 9 110 11 12 13 14 15 16 17 18 19 20 21	Q. Did you set that LLC up in connection with your work on this litigation? A. Yes. Q. Do the fees that you earn as an expert witness go directly to you? A. Yes. Q. Do you have any other sources of income besides the salary you get from Boston University and whatever you earn as an expert witness? A. No. Q. You are charging Mr. Tisi and other attorneys representing plaintiffs \$600 an hour for your time; is that correct? A. That's correct. Q. Do you charge a different rate for testimony versus your review of materials? A. No. I've never been I've never
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	you and I speak one at a time, that we speak audibly, and that you understand the questions that I ask before you answer. Are you good with all of those sort of ground rules? A. Yes. Q. Did you bring any documents with you to today's deposition? A. Yes. Q. What documents did you bring? A. Manuscripts of previously published papers and a few other publicly available information. Q. Are those materials contained in the two notebooks sitting in front of you? A. Yes. MR. HEGARTY: I will designate those two notebooks as Exhibit Number 1.	4 5 6 7 8 9 110 11 12 13 14 15 16 17 18 19 20 21	Q. Did you set that LLC up in connection with your work on this litigation? A. Yes. Q. Do the fees that you earn as an expert witness go directly to you? A. Yes. Q. Do you have any other sources of income besides the salary you get from Boston University and whatever you earn as an expert witness? A. No. Q. You are charging Mr. Tisi and other attorneys representing plaintiffs \$600 an hour for your time; is that correct? A. That's correct. Q. Do you charge a different rate for testimony versus your review of materials? A. No. I've never been I've never had to testify. So, but as of right now, no, I have not.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	you and I speak one at a time, that we speak audibly, and that you understand the questions that I ask before you answer. Are you good with all of those sort of ground rules? A. Yes. Q. Did you bring any documents with you to today's deposition? A. Yes. Q. What documents did you bring? A. Manuscripts of previously published papers and a few other publicly available information. Q. Are those materials contained in the two notebooks sitting in front of you? A. Yes. MR. HEGARTY: I will designate those two notebooks as Exhibit Number 1. (2 Notebooks marked for	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Did you set that LLC up in connection with your work on this litigation? A. Yes. Q. Do the fees that you earn as an expert witness go directly to you? A. Yes. Q. Do you have any other sources of income besides the salary you get from Boston University and whatever you earn as an expert witness? A. No. Q. You are charging Mr. Tisi and other attorneys representing plaintiffs \$600 an hour for your time; is that correct? A. That's correct. Q. Do you charge a different rate for testimony versus your review of materials? A. No. I've never been I've never had to testify. So, but as of right now, no, I have not.

	Page 19		Page 20
1	Page 18 with that number?	1	Page 20 have been provided for you.
2	A. Through colleagues of mine who are	2	(Document marked for
3	attorneys, and I asked what was an appropriate	3	identification as Harlow Exhibit 2.)
1	amount.	4	MR. TISI: I assume this is
5	Q. What's a who's a colleague of	5	Exhibit 2?
1	yours that's an attorney that you had that	6	MR. HEGARTY: Yes. As I said,
1	discussion with?	7	I'm marking that as Exhibit Number 2.
8	MR. TISI: Well, let me object	8	MR. TISI: Okay. I'm sorry.
9	to the extent he was asking any advice	9	BY MR. HEGARTY:
10	from from other lawyers about about	10	Q. Please look at Exhibit Number 2,
11	what he should charge.	11	Dr. Harlow, and tell us whether those are the
12	You can give a general a	12	invoices that you have issued in connection with
13	general idea.	13	your work in this case.
14	MR. HEGARTY: All I'm asking	14	A. Well, these are these are copies
15	for is a name.	15	of the same invoice.
16	MR. TISI: Yeah, I understand.	16	Q. There are three separate invoices,
17	THE WITNESS: His name is	17	correct?
18	Robert Adelman. He's an attorney in	18	A. No. These all appear to be the same
19	Connecticut.	19	invoice.
20	BY MR. HEGARTY:	20	MR. TISI: Let me see. Maybe
21	Q. And with regard to this this \$600	21	they collated them differently.
22	an hour figure, you don't make that much as a	22	I think I think I know what
23	professor at Boston University, do you?	23	happened. Here you go. I think
24	A. No.	24	they're
	Page 19		Page 21
1	Q. Did you receive a retainer in	1	MR. HEGARTY: Okay.
1	connection with your work in this litigation?	2	MR. TISI: I think they
3	A. No.	3	printed them.
4	Q. Have you invoiced to the lawyers	4	MR. HEGARTY: So do you have 1
	representing plaintiffs the time that you have	5	as well in your group?
1	spent working on this litigation?	6	MR. TISI: I think you
1	A. Yes.	7	probably. I have
8	Q. Do you invoice as well expenses that		BY MR. HEGARTY:
	you've incurred associated with your work on thi		Q. There's 3.
	litigation?	10	A. 2, 3. We're missing 1.
11	A. Yes.	11	MR. HEGARTY: Okay. Let's go
12	Q. For example, you flew down here from		off the record real quick.
1	Boston, correct?	13	(Recess: 9:34 a.m
14	A. Yes.	14	9:36 a.m.)
15	Q. Did you fly first class?		BY MR. HEGARTY:
16	A. No.	16	Q. Does Boston University have
17	Q. Do you intend to invoice the cost of		disclosure policies for consulting outside of your
1	that flight to the attorneys representing		work at the university?
	plaintiffs in this case?	19	A. I believe it's only if it exceeds a
20	A. Yes.		certain amount.
21	Just looking for my water.	21	Q. Have you disclosed the work you are
22	MR. TISI: I'll get it.		doing in this litigation pursuant to any
23	MR. HEGARTY: I'm going to	123	disclosure policy at Boston University?
24	mark as Exhibit Number 2 the invoices we	24	A. No.

Page 24

Document 33008-56 PageID: 211220

Page 22

- 1 Q. You have not filled out any type of
- 2 form disclosing that you're -- you have consulted
- 3 with and are a designated expert witness for
- 4 plaintiffs in this litigation?
- 5 A. Not at this point. We do that at
- 6 the end of the year. So if they ask about events
- 7 that happened in the past year, I will evaluate.
- 8 I look will look at the form that they provide and
- 9 complete it accordingly.
- 10 Q. You started working with the
- 11 attorneys representing the plaintiffs in this case
- 12 back in 2023, correct?
- 13 A. Yes.
- 14 Q. Did you prepare any type of
- 15 disclosure form for Boston University at the end
- 16 of 2023?
- 17 A. No, I did not.
- 18 Q. You needed to do so, didn't you?
- 19 A. I would have to check on that.
- 20 Q. I've looked at the policies online,
- 21 and from my review, it appears that you would need
- 22 to fill out a disclosure form for your work on
- 23 this case.
- Is that not your understanding?

Page 23

- 1 A. I will check on that when I get
- 2 back.
- 3 Q. Have you orally or in any other type
- 4 of writing advised anyone at Boston University
- 5 about your work on this case?
- 6 A. Only Dr. Rothman, who I had done 7 work with.
- 8 Q. Other than Dr. Rothman, did you
- 9 advise anyone else at Boston University about your
- 10 work on this litigation?
- 11 A. No.
- 12 Q. What do you consider your occupation
- 13 to be?
- 14 A. A professor of epidemiology.
- 15 Q. What is your current area of
- 16 expertise in epidemiology?
- 17 A. Women's reproductive and gynecologic
- 18 health.
- 19 Q. Is there a particular subtype of
- 20 those two categories that you're focused on
- 21 currently?
- 22 A. I'm currently focusing on benign
- 23 gynecologic disorders.
- Q. Are you currently involved in any

nge 22 |

1 research activities at Boston University?

- 2 A. Yes.
- 3 Q. What is the focus of your research
- 4 currently?
- 5 A. I'm currently studying unexplained
- 6 vulvar pain. I'm also studying the impact of --
- 7 of factors that influence women's urological
- 8 health.
- 9 Q. What percentage of your work time do
- 10 you devote to this research?
- 11 A. This year, about 50 percent.
 - Q. Are you currently teaching students?
- 13 A. This year, yes, I taught a class. I
- 14 taught.

12

- 15 Q. What class did you teach this year?
- 16 A. This year I taught Guided
- 17 Epidemiology Research.
- 18 Q. Have you always taught classes while
- 19 you've been at Boston University?
- 20 A. Yes.
- Q. Besides teaching and research, what
- 22 other activities do you do at Boston University
- 23 work-wise?
- A. I sit on the -- I sit on committees.

Page 25

- 1 I have -- I currently sit on the appointment and
- 2 promotions committee for the -- for the school.
- 3 directed the master's of public health -- I
- 4 codirected the master's of public health program
- 5 in epidemiology and biostatistics. Those are the
- 6 most recent.
- 7 Q. What percentage of your work time do
- 8 you spend on committees?
- 9 A. 10 percent.
- 10 Q. You told me that 50 percent goes to
- 11 research, 10 percent to committees.
- 12 Is then 40 percent devoted to
- 13 teaching?
- 14 A. About that, yes.
- 15 Q. Are you affiliated in any way still
- 16 with the University of Minnesota?
- 17 A. I have an adjunct appointment, that
- 18 my work on women's urological condition is a
- 19 subcontract through the University of Minnesota.
- 20 And as you know from my CV, I chaired the
- 21 Department of Epidemiology there for 10 years.
- Q. How many hours a week do you
- 23 typically put in at Boston University?
- A. Well, how many hours I put in?

7 (Pages 22 - 25)

	Page 20		Page 28
1	Probably 40 to 50. (Laugh).		case or cases involving talcum powder use and
2	Q. Okay. Have you taught courses at		ovarian cancer?
3		3	A. Yeah. I did provide consultation on
4	A. No.	4	an area of acetaminophen use in pregnant women and
5	Q. You don't teach gynecologic	5	its association with neurodevelopmental disorders.
6	oncologists, correct?	6	Q. That
7	A. No.	7	1
8	Q. You don't teach oncologists,	8	
9		9	1
10	A. No.		correct?
11	Q. Prior to this case, have you ever	11	
1	been, to your knowledge, designated as an expert	12	,
	witness in a legal proceeding?		reports that you serve on a lawyer-sponsored
14	A. No.		Autism Justice's team of experts?
15	Q. What percentage of your work time in	15	
	2023 was spent on litigation matters?		still involved.
17	A. 10 percent, maybe less.	17	,
18	Q. What percentage of your work time in	19	A. That is correct.
19 20	2024 has been spent on litigation matters? A. About the same.	20	
21	Q. In 2023, what percentage of your	1	consultation, again, those are that
	total income was from work on litigation matters?		consultation has been related to claims that
23	A. I would say less than 10 percent.	1	acetaminophen use during pregnancy causes autism?
24	Q. Are you consulting with regard to	24	
	Page 2'		Page 29
1	rage 2.		rage 29
	litigation on any matters other than matters	1	O Also that acetaminophen use during
	litigation on any matters other than matters involving talcum powder and ovarian cancer?	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	
2	involving talcum powder and ovarian cancer?	2	pregnancy causes ADHD; is that correct?
	involving talcum powder and ovarian cancer? A. Currently, no.	3	pregnancy causes ADHD; is that correct? A. It's the entire spectrum of
3	involving talcum powder and ovarian cancer? A. Currently, no.	2 3 4	pregnancy causes ADHD; is that correct? A. It's the entire spectrum of neurodevelopmental disorders.
2 3 4 5	involving talcum powder and ovarian cancer? A. Currently, no. Q. Have you ever consulted on any	2 3 4 1 5	pregnancy causes ADHD; is that correct? A. It's the entire spectrum of neurodevelopmental disorders.
2 3 4 5 6	involving talcum powder and ovarian cancer? A. Currently, no. Q. Have you ever consulted on any litigation matters besides cases involving talcur	2 3 4 1 5	pregnancy causes ADHD; is that correct? A. It's the entire spectrum of neurodevelopmental disorders. Q. Have you been paid anything for your consultation work as to that subject area?
2 3 4 5 6	involving talcum powder and ovarian cancer? A. Currently, no. Q. Have you ever consulted on any litigation matters besides cases involving talcur powder use and claims of ovarian cancer?	2 3 4 5 6	pregnancy causes ADHD; is that correct? A. It's the entire spectrum of neurodevelopmental disorders. Q. Have you been paid anything for your consultation work as to that subject area? A. Yes.
2 3 4 5 6 7	involving talcum powder and ovarian cancer? A. Currently, no. Q. Have you ever consulted on any litigation matters besides cases involving talcur powder use and claims of ovarian cancer? A. Could you just repeat that, please?	2 3 4 5 6 7	pregnancy causes ADHD; is that correct? A. It's the entire spectrum of neurodevelopmental disorders. Q. Have you been paid anything for your consultation work as to that subject area? A. Yes. Q. How much have you been paid?
2 3 4 5 6 7 8 9	involving talcum powder and ovarian cancer? A. Currently, no. Q. Have you ever consulted on any litigation matters besides cases involving talcur powder use and claims of ovarian cancer? A. Could you just repeat that, please? Q. Sure. Have you ever consulted on a litigation matter other than in cases involving	2 3 4 5 6 7 8 9	pregnancy causes ADHD; is that correct? A. It's the entire spectrum of neurodevelopmental disorders. Q. Have you been paid anything for your consultation work as to that subject area? A. Yes. Q. How much have you been paid? A. I would have to to go back, but it was I would be surprised if it was more than
2 3 4 5 6 7 8 9 10	involving talcum powder and ovarian cancer? A. Currently, no. Q. Have you ever consulted on any litigation matters besides cases involving talcur powder use and claims of ovarian cancer? A. Could you just repeat that, please? Q. Sure. Have you ever consulted on a litigation matter other than in cases involving talcum powder use and ovarian cancer claims?	2 3 4 5 6 7 8 9 10	pregnancy causes ADHD; is that correct? A. It's the entire spectrum of neurodevelopmental disorders. Q. Have you been paid anything for your consultation work as to that subject area? A. Yes. Q. How much have you been paid? A. I would have to to go back, but it was I would be surprised if it was more than \$5,000. It may have been less. I just I don't
2 3 4 5 6 7 8 9 10 11 12	involving talcum powder and ovarian cancer? A. Currently, no. Q. Have you ever consulted on any litigation matters besides cases involving talcur powder use and claims of ovarian cancer? A. Could you just repeat that, please? Q. Sure. Have you ever consulted on a litigation matter other than in cases involving talcum powder use and ovarian cancer claims? MR. TISI: And the answer is	2 3 4 5 6 7 8 9 10 11 12	pregnancy causes ADHD; is that correct? A. It's the entire spectrum of neurodevelopmental disorders. Q. Have you been paid anything for your consultation work as to that subject area? A. Yes. Q. How much have you been paid? A. I would have to to go back, but it was I would be surprised if it was more than \$5,000. It may have been less. I just I don't remember.
2 3 4 5 6 7 8 9 10 11 12 13	involving talcum powder and ovarian cancer? A. Currently, no. Q. Have you ever consulted on any litigation matters besides cases involving talcur powder use and claims of ovarian cancer? A. Could you just repeat that, please? Q. Sure. Have you ever consulted on a litigation matter other than in cases involving talcum powder use and ovarian cancer claims? MR. TISI: And the answer is yes or no, just to be clear. He's not	2 3 4 4 5 6 7 8 9 10 11 12 13	pregnancy causes ADHD; is that correct? A. It's the entire spectrum of neurodevelopmental disorders. Q. Have you been paid anything for your consultation work as to that subject area? A. Yes. Q. How much have you been paid? A. I would have to to go back, but it was I would be surprised if it was more than \$5,000. It may have been less. I just I don't remember. Q. Is that consultation work still
2 3 4 5 6 7 8 9 10 11 12 13 14	involving talcum powder and ovarian cancer? A. Currently, no. Q. Have you ever consulted on any litigation matters besides cases involving talcur powder use and claims of ovarian cancer? A. Could you just repeat that, please? Q. Sure. Have you ever consulted on a litigation matter other than in cases involving talcum powder use and ovarian cancer claims? MR. TISI: And the answer is yes or no, just to be clear. He's not asking you what you did, just whether you	2 3 4 4 5 6 7 8 9 10 11 12 13 14	A. It's the entire spectrum of neurodevelopmental disorders. Q. Have you been paid anything for your consultation work as to that subject area? A. Yes. Q. How much have you been paid? A. I would have to to go back, but it was I would be surprised if it was more than \$5,000. It may have been less. I just I don't remember. Q. Is that consultation work still ongoing?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	involving talcum powder and ovarian cancer? A. Currently, no. Q. Have you ever consulted on any litigation matters besides cases involving talcur powder use and claims of ovarian cancer? A. Could you just repeat that, please? Q. Sure. Have you ever consulted on a litigation matter other than in cases involving talcum powder use and ovarian cancer claims? MR. TISI: And the answer is yes or no, just to be clear. He's not asking you what you did, just whether you did.	2 3 4 4 5 6 7 8 9 10 11 12 13 14 15	pregnancy causes ADHD; is that correct? A. It's the entire spectrum of neurodevelopmental disorders. Q. Have you been paid anything for your consultation work as to that subject area? A. Yes. Q. How much have you been paid? A. I would have to to go back, but it was I would be surprised if it was more than \$5,000. It may have been less. I just I don't remember. Q. Is that consultation work still ongoing? A. Not that I'm aware of.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	involving talcum powder and ovarian cancer? A. Currently, no. Q. Have you ever consulted on any litigation matters besides cases involving talcur powder use and claims of ovarian cancer? A. Could you just repeat that, please? Q. Sure. Have you ever consulted on a litigation matter other than in cases involving talcum powder use and ovarian cancer claims? MR. TISI: And the answer is yes or no, just to be clear. He's not asking you what you did, just whether you did. MR. HEGARTY: That's right.	2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16	A. It's the entire spectrum of neurodevelopmental disorders. Q. Have you been paid anything for your consultation work as to that subject area? A. Yes. Q. How much have you been paid? A. I would have to to go back, but it was I would be surprised if it was more than \$5,000. It may have been less. I just I don't remember. Q. Is that consultation work still ongoing? A. Not that I'm aware of. Q. When did you last, as you understand
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	involving talcum powder and ovarian cancer? A. Currently, no. Q. Have you ever consulted on any litigation matters besides cases involving talcur powder use and claims of ovarian cancer? A. Could you just repeat that, please? Q. Sure. Have you ever consulted on a litigation matter other than in cases involving talcum powder use and ovarian cancer claims? MR. TISI: And the answer is yes or no, just to be clear. He's not asking you what you did, just whether you did. MR. HEGARTY: That's right. THE WITNESS: I'm not sure	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. It's the entire spectrum of neurodevelopmental disorders. Q. Have you been paid anything for your consultation work as to that subject area? A. Yes. Q. How much have you been paid? A. I would have to to go back, but it was I would be surprised if it was more than \$5,000. It may have been less. I just I don't remember. Q. Is that consultation work still ongoing? A. Not that I'm aware of. Q. When did you last, as you understand it serve, as a consult as a consultant in that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	involving talcum powder and ovarian cancer? A. Currently, no. Q. Have you ever consulted on any litigation matters besides cases involving talcur powder use and claims of ovarian cancer? A. Could you just repeat that, please? Q. Sure. Have you ever consulted on a litigation matter other than in cases involving talcum powder use and ovarian cancer claims? MR. TISI: And the answer is yes or no, just to be clear. He's not asking you what you did, just whether you did. MR. HEGARTY: That's right. THE WITNESS: I'm not sure what "litigation matter" means. If you	2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18	A. It's the entire spectrum of neurodevelopmental disorders. Q. Have you been paid anything for your consultation work as to that subject area? A. Yes. Q. How much have you been paid? A. I would have to to go back, but it was I would be surprised if it was more than \$5,000. It may have been less. I just I don't remember. Q. Is that consultation work still ongoing? A. Not that I'm aware of. Q. When did you last, as you understand it serve, as a consult as a consultant in that litigation in that subject area?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	involving talcum powder and ovarian cancer? A. Currently, no. Q. Have you ever consulted on any litigation matters besides cases involving talcur powder use and claims of ovarian cancer? A. Could you just repeat that, please? Q. Sure. Have you ever consulted on a litigation matter other than in cases involving talcum powder use and ovarian cancer claims? MR. TISI: And the answer is yes or no, just to be clear. He's not asking you what you did, just whether you did. MR. HEGARTY: That's right. THE WITNESS: I'm not sure what "litigation matter" means. If you could define that for me?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	pregnancy causes ADHD; is that correct? A. It's the entire spectrum of neurodevelopmental disorders. Q. Have you been paid anything for your consultation work as to that subject area? A. Yes. Q. How much have you been paid? A. I would have to to go back, but it was I would be surprised if it was more than \$5,000. It may have been less. I just I don't remember. Q. Is that consultation work still ongoing? A. Not that I'm aware of. Q. When did you last, as you understand it serve, as a consult as a consultant in that litigation in that subject area? A. Probably I would think earlier,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	involving talcum powder and ovarian cancer? A. Currently, no. Q. Have you ever consulted on any litigation matters besides cases involving talcur powder use and claims of ovarian cancer? A. Could you just repeat that, please? Q. Sure. Have you ever consulted on a litigation matter other than in cases involving talcum powder use and ovarian cancer claims? MR. TISI: And the answer is yes or no, just to be clear. He's not asking you what you did, just whether you did. MR. HEGARTY: That's right. THE WITNESS: I'm not sure what "litigation matter" means. If you could define that for me? BY MR. HEGARTY:	2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	pregnancy causes ADHD; is that correct? A. It's the entire spectrum of neurodevelopmental disorders. Q. Have you been paid anything for your consultation work as to that subject area? A. Yes. Q. How much have you been paid? A. I would have to to go back, but it was I would be surprised if it was more than \$5,000. It may have been less. I just I don't remember. Q. Is that consultation work still ongoing? A. Not that I'm aware of. Q. When did you last, as you understand it serve, as a consult as a consultant in that litigation in that subject area? A. Probably I would think earlier, prior to my work on this, in I believe it was
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	involving talcum powder and ovarian cancer? A. Currently, no. Q. Have you ever consulted on any litigation matters besides cases involving talcur powder use and claims of ovarian cancer? A. Could you just repeat that, please? Q. Sure. Have you ever consulted on a litigation matter other than in cases involving talcum powder use and ovarian cancer claims? MR. TISI: And the answer is yes or no, just to be clear. He's not asking you what you did, just whether you did. MR. HEGARTY: That's right. THE WITNESS: I'm not sure what "litigation matter" means. If you could define that for me? BY MR. HEGARTY: Q. Sure.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. It's the entire spectrum of neurodevelopmental disorders. Q. Have you been paid anything for your consultation work as to that subject area? A. Yes. Q. How much have you been paid? A. I would have to to go back, but it was I would be surprised if it was more than \$5,000. It may have been less. I just I don't remember. Q. Is that consultation work still ongoing? A. Not that I'm aware of. Q. When did you last, as you understand it serve, as a consult as a consultant in that litigation in that subject area? A. Probably I would think earlier, prior to my work on this, in I believe it was 2023.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	involving talcum powder and ovarian cancer? A. Currently, no. Q. Have you ever consulted on any litigation matters besides cases involving talcur powder use and claims of ovarian cancer? A. Could you just repeat that, please? Q. Sure. Have you ever consulted on a litigation matter other than in cases involving talcum powder use and ovarian cancer claims? MR. TISI: And the answer is yes or no, just to be clear. He's not asking you what you did, just whether you did. MR. HEGARTY: That's right. THE WITNESS: I'm not sure what "litigation matter" means. If you could define that for me? BY MR. HEGARTY: Q. Sure. Have you ever consulted on what you	2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	pregnancy causes ADHD; is that correct? A. It's the entire spectrum of neurodevelopmental disorders. Q. Have you been paid anything for your consultation work as to that subject area? A. Yes. Q. How much have you been paid? A. I would have to to go back, but it was I would be surprised if it was more than \$5,000. It may have been less. I just I don't remember. Q. Is that consultation work still ongoing? A. Not that I'm aware of. Q. When did you last, as you understand it serve, as a consult as a consultant in that litigation in that subject area? A. Probably I would think earlier, prior to my work on this, in I believe it was 2023. Q. Is it your opinion that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	involving talcum powder and ovarian cancer? A. Currently, no. Q. Have you ever consulted on any litigation matters besides cases involving talcur powder use and claims of ovarian cancer? A. Could you just repeat that, please? Q. Sure. Have you ever consulted on a litigation matter other than in cases involving talcum powder use and ovarian cancer claims? MR. TISI: And the answer is yes or no, just to be clear. He's not asking you what you did, just whether you did. MR. HEGARTY: That's right. THE WITNESS: I'm not sure what "litigation matter" means. If you could define that for me? BY MR. HEGARTY: Q. Sure.	2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	pregnancy causes ADHD; is that correct? A. It's the entire spectrum of neurodevelopmental disorders. Q. Have you been paid anything for your consultation work as to that subject area? A. Yes. Q. How much have you been paid? A. I would have to to go back, but it was I would be surprised if it was more than \$5,000. It may have been less. I just I don't remember. Q. Is that consultation work still ongoing? A. Not that I'm aware of. Q. When did you last, as you understand it serve, as a consult as a consultant in that litigation in that subject area? A. Probably I would think earlier, prior to my work on this, in I believe it was 2023. Q. Is it your opinion that acetaminophen use during pregnancy causes autism?

	Page 30		Page 32
1	Objection to the extent to which you	1	A. Yes.
2	develop that in the course of your	2	Q. What was the relative risk or odds
3	consultation. He can ask you about your	3	ratio that you came up came away with from your
4	published work, but but anything you	4	review of that literature?
5	developed in the course of your	5	MR. TISI: Again, I'm going to
6	consultation with those attorneys, I	6	instruct you if you developed that
7	instruct you not to answer.	7	THE WITNESS: I just
8	MR. HEGARTY: Wait. Let me	8	MR. TISI: Wait. Let me
9	clarify. I'm asking him without regard	9	finish.
10	to consultation.	10	If you developed that in the
11	MR. TISI: If you develop	11	context of your consultation with lawyers
12	BY MR. HEGARTY:	12	to advise lawyers about pending
13	Q. Is it your opinion?	13	litigation in legal matters, then I
14	MR. TISI: If you develop that	14	instruct you not to answer that question.
15	opinion in connection with your	15	If you did it otherwise, then feel free
16	consultation work, I instruct you not to	16	to answer the question.
17	answer that question.	17	THE WITNESS: I did not.
	BY MR. HEGARTY:	18	I'm sorry. Repeat the
19	Q. Are you going to follow Mr. Tisi's	19	question, please.
	instructions?		BY MR. HEGARTY:
21	A. Yes.	21	Q. Sure.
22	MR. HEGARTY: What's the basis	22	Did you develop an opinion as to the
23	of that objection?	l	odds ratio of relative risk of neurologic
24	MR. TISI: He developed he		disorders, including autism, from acetaminophen
24	<u> </u>	24	
1	Page 31 developed an opinion. Unless he	1	Page 33 use during pregnancy?
2	expressed it publicly. Okay? You can	2	A. I did not develop an opinion. I
3	ask him about his public statements, but	3	reviewed the literature as to what had been
4	if he expressed it if he developed an		published.
5	opinion and he expressed it to lawyers,	5	Q. Did you come away with an opinion as
6	he developed it during consultation.	_	to whether the studies showed a dose response?
7	And if you if you disagree	7	A. I don't recall.
8	with me, I'm more than happy	8	Q. Did you look at any animal studies
9	MR. HEGARTY: That's all	_	related to acetaminophen use during pregnancy and
10	right. We're not I do disagree with		autism or neurologic disorders?
11	you, but we're not going to be it's	11	A. I looked at biological, yes. Yes.
12	not going to be resolved here.	12	Q. You looked at biologic plausibility
13	MR. TISI: Okay.	l	studies?
l	BY MR. HEGARTY:	14	A. Yes.
15	Q. Have you ever made any public	15	Q. Those included animal studies?
l	statement that acetaminophen use during pregnancy	16	A. Again, I don't recall. I would have
1	causes autism or any other neurologic disorder?		to go back.
18	A. I made a public statement that there	18	Q. Do you remember if you looked at any
l	was evidence of an association. I do not believe	l	cell studies?
	I ever used the word "cause."	20	A. I don't recall.
		20 21	
21	Q. Did you make the statement that there was evidence of an association based on your	l	Q. Did you compare competing explanations for any positive increase in risk
22	THELE WAS EVIDENCE OF AN ASSOCIATION DASEG ON VOIIT		Expranamous for any positive increase in risk
		1	
23	review of all the epidemiologic studies looking at acetaminophen use and neurologic disorders?	23	from acetaminophen use during pregnancy and autism?

	Page 34		Page 36
1	A. Absolutely. That is the way in	1	Q. Have you ever served on an FDA
2	which I usually evaluate scientific literature.	2	committee?
3	Q. Did those competing risks include	3	A. Only the conference that was held in
4		4	1994, I believe, that was sponsored by the FDA. I
5	A. I don't recall.	5	was an invited participant.
6	MR. TISI: I don't want to	6	Q. And we'll talk about that here in a
7	interrupt you, but it looks like we're on	7	moment.
8	mute and for some reason Tracy can't hear	8	A. Yeah.
9	us.	9	Q. Other than that, other than your
10	MR. HEGARTY: Okay. Let's go	10	participation in that 1994 FDA workshop
11	off the record.	11	A. Yes.
12	MS. FINKEN: No, I can hear.	12	Q have you ever otherwise served on
13	MR. TISI: You can hear now?	13	any FDA committee or been otherwise involved in
14	MS. FINKEN: Yes.		FDA with regard to a cosmetic including talcum
15	MR. TISI: Okay. Sorry.		powder?
	BY MR. HEGARTY:	16	A. Yeah. No.
17	Q. Sounds like from your last response	17	Q. FDA has never contacted you about
	you applied the same methodology in looking at the		talcum powder, correct?
	epidemiologic studies on acetaminophen use during	19	A. No.
1	pregnancy and autism as you did for this case?	20	Q. You have never worked for Health
21	A. That's correct.		Canada, correct?
22	Q. Have you ever been hired by a	22	A. Correct.
1	company to consult regarding a cosmetic product?	23	Q. You have never worked for any
24	A. No.	24	foreign regulatory agency, correct?
	Page 35	1	Page 37
1	Q. Has any cosmetic pharmaceutical or	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	A. Correct.
	chemical company ever hired you as a consultant on	$\frac{2}{3}$	Q. You have never communicated with Health Canada?
Ι.	any matter? A. No.	4	A. Correct.
4		5	Q. Have you ever referenced in any
5	Q. Have you ever been employed by a pharmaceutical medical device consumer product or	6	•
	chemical company in any capacity?	7	A. No.
8	A. No.	8	Q. Have you ever referenced in any
9	Q. Have you ever been involved in a		publication of yours a Health Canada risk
	company's analysis of safety data regarding a		assessment?
	cosmetic?	11	A. Only the report that I currently
12	A. No.		wrote.
13	Q. You have never worked for FDA,	13	Q. My question was specifically as to a
1	correct?		publication.
15	A. Correct.	15	Your report has not been published,
16	Q. Have you ever worked for any		correct?
1	governmental agency, that is, been employed by a	17	A. Correct.
	governmental agency?	18	Q. So have you ever referenced in any
19	A. Yes. Oh, employed by a government		publication of yours a Health Canada risk
20	agency. No.		assessment?
21	Q. Have you ever communicated directly	21	A. No.
22	with anyone at FDA regarding a cosmetic including	22	Q. Do you claim to be an expert in
	talcum powder?	23	Health Canada's risk assessment process?
	A. No.	24	A. Yes.

1	Page 20		Page 40
1	Page 38 Q. What is the basis of your expertise?	1	doing its screening assessment? In other words,
2	A. I believe I'm an accomplished		had you heard about it before you were contacted
	epidemiologist that's able to evaluate the		by plaintiffs' counsel for this litigation?
1	strengths and limitations of the evaluation of	4	A. No, I was not.
	scientific literature.	5	Q. You have reviewed the screening
6	Q. My question might be a little bit		assessment, and from your review, did you note
	different.	7	
8	My question is: Are you an expert		
-	in the process by which Health Canada goes about	9	MR. TISI: Objection.
1	doing its risk assessments?	10	Incomplete.
11	A. No.	11	THE WITNESS: In my review, I
12	MR. TISI: Objection. Vague.	12	did not I only looked at the studies
13	THE WITNESS: Sorry.	13	and the evaluation that they did. I did
	BY MR. HEGARTY:	14	not consider who did it, who was paid by
15		15	whom to do what, or anything really
	Q. You have read Health Canada's screening assessment for talc, correct?	16	regarding litigation.
17	A. Yes.		BY MR. HEGARTY:
18		18	
			Q. Have you ever cited to litigation
	Health Canada as it relates to that screening assessment?	20	reports in any peer-reviewed publication of yours? A. No, not that I'm aware of.
			•
21		21	Q. Have you ever cited to any expert
22	Q. Did you read Health Canada's		
1	screening assessment for talc prior to being		publication of yours?
24 (contacted by plaintiffs' counsel about testifying	24	A. No.
	Page 39	1	Page 41
	as an expert for them in this litigation?	1	Q. Do you know whether FDA has ever
2	A. I did not.		cited to any litigation expert reports or
3	Q. Do you know who the authors of		testimony in making any safety findings or
	Health Canada's screening assessment are?		conclusions?
5	A. I do not.	5	MR. TISI: Objection.
6	Q. Do you know anyone involved in	6	Only if you know.
	analyzing the data and putting that screening	7	THE WITNESS: No.
	assessment together?		BY MR. HEGARTY:
9	A. No.	9	Q. Have you ever cited to exhibits from
10	Q. Do you know the expertise of anyone		depositions in any peer-reviewed publication of
	involved in putting the screening assessment		yours?
	together for talc?	12	
13	A. In the Health Canada report?	13	Q. Do you think it's appropriate for an
14	Q. Yes, sir.		entity such as Health Canada to rely on litigation
15	A. No.		reports for purposes of putting together that
16	Q. Did you review any of the materials		screening assessment?
	submitted to Health Canada as part of that	17	MR. TISI: Again, let me
18	process?	18	3 6
1	A. No.	19	Go ahead.
19	Q. You did not submit any material to	20	
20	•	$^{\prime}$ 1	dente libere ne eninien en dieu
20 21	Health Canada as part of the screening assessment	21	don't I have no opinion on that.
20 21 22 1	Health Canada as part of the screening assessment process, correct?	22	BY MR. HEGARTY:
20 21	Health Canada as part of the screening assessment	22 23	_

1	Page 42		Page 44
1	Are you currently consulting,	1	first
	ide of what we're here to talk about today,	2	MR. HEGARTY: That's what I
	es involving talcum powder use and ovarian	$\frac{2}{3}$	
4 cand			was going to say. Let's go off the
		4	record.
-	A. No. MR. HEGARTY: The next exhibit	5	(Recess: 9:57 a.m
6		6	10:01 a.m.)
	I'm going to mark, Dr. Harlow, is a copy		BY MR. HEGARTY:
1	of the CV we were provided in advance of	8	Q. Dr. Harlow, we took a short break
1	your deposition. It's dated at the top		after you and I discussed when you were first
	March 2024.		being when you were first contacted about
11	THE WITNESS: Uh-huh.		serving as an expert witness in this litigation,
12	MR. HEGARTY: I'm going to		and in doing so, I want to circle back to your
13	mark that document as Exhibit 3.	13	invoices that we marked as Exhibit Number 2.
14	(Document marked for	14	Do you have the three invoices that
15	identification as Harlow Exhibit 3.)	15	we have been provided dated October 2023, January
16	THE WITNESS: Uh-huh.	16	2024 and February and January/February 2024?
17 BY	MR. HEGARTY:	17	A. Yes.
18	Q. Is Exhibit 3 your March 2024	18	Q. Those have all been marked as
19 curr	iculum vitae?	19	Exhibit Number 2
20	A. Yes.	20	A. Yes.
21	Q. Does it accurately describe your	21	Q is that correct?
22 educ	cation, training, and experience?	22	A. Yes.
	A. Yes.	23	Q. And looking at Exhibit Number 2 and
24	Q. Are there any changes or revisions	24	the dates shown on it, can you tell when it was
	Page 43		Page 45
1 nece	ssary to make it current for today?	1	that you were first contacted about serving as an
	A. I don't believe so.	2	expert witness in this litigation?
	2. Are your publications list up to	3	A. Well, it looks like I didn't start
4 date		4	
	A. I believe so, though things are	5	September, but I may have been contacted before.
1	with papers that are currently under review,	l	I was probably contacted before and didn't get
1	his is largely correct.	l	started on doing the work until until then.
			_
1	Q. We are here today to take your	8	Q. Are you able to recall how long it
1 -	sition in the case of In re Johnson & Johnson	l	
	Litigation MDL, et al.	10	MR. TISI: I'm sorry. I don't
11	Are you aware that you are	11	think he was finished.
1	gnated as a testifying expert in this case?		BY MR. HEGARTY:
	A. I know that I am a testifying expert	13	Q. Oh, I'm sorry.
1	in this litigation. I don't know who the	14	A. No. Probably perhaps in August.
1 *	atiffs are.	15	Q. Looking at Exhibit Number 2, the
	Q. And we'll cover that here in a		first entry for the October 2023 invoice, it says
	nent, but when were you first contacted about	17	"Review of documents provided."
	ng as an expert in this case?	18	Who provided documents to you?
	A. In 2023.	19	A. Mr. Tisi.
20 (Q. Do you recall the exact month and	20	Q. What documents were you provided?
21 date	?	21	MR. TISI: Objection. I
22 A	A. I would say perhaps August or	22	instruct you not to answer what you were
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23	. 1 1
23 Sept	ember or somewhere in that realm. I could	23	provided.

	Page 46		Page 48
1	Q. Did you ask Mr. Tisi for any	1	Q. Looking down at the entries for
2 0	documents in connection with your work on this	2	October 8th and 9th, it says "Review edits by KJR
1	litigation?		and modify report."
4	MR. TISI: You can answer that	4	KJR is Ken Rothman?
5	question, but no further questions on	5	A. Correct.
6	that.	6	Q. How were those edits communicated to
7	THE WITNESS: Only to the	7	you?
8	extent that that it would be more	8	A. We we worked together
9	efficient with my time if they had the	9	collaboratively. We were either in person, but
10	list of a list of references of of	10	most of the time it was on Zoom.
11	articles so that I wouldn't have to spend	11	Q. Were there drafts prepared that you
12	my time doing a Medline search and having	12	still have of your report?
13	to pull them all out on my own.	13	A. No. We we would modify existing
14	Even though I did a Medline	14	drafts and we would not keep the old ones.
15	search on the literature, I tried to be	15	Q. The entry for October 10, 2023 says
16	efficient with my time.	16	"Met with KJR and then modified report."
17 I	BY MR. HEGARTY:	17	Did you meet with him in person?
18	Q. How many documents were you provided	18	A. I don't recall.
19 t	by Mr. Tisi's office?	19	Q. Looking at the bottom, under Total
20	A. I don't recall, but certainly no	20	it says "Total received: 9,000. Balance due:
1	not no more than what I've already what I	21	4500."
1	already have here. So.	22	Is that 9,000 not a retainer?
23	Q. You say what you already have here.	23	A. No, it is not a retainer.
24	You're referring to the two	24	Q. Where is that where did that
	Page 47		Page 49
	notebooks we've marked as Exhibit Number 2?	1	9,000 come from?
2			
	A. The two notebooks, yes.	2	A. It was the first installment. I
3	Q. If you had the time, could you go	2 3	A. It was the first installment. I originally was charging \$400 an hour and after
3 4 t	Q. If you had the time, could you go hrough the notebooks and identify which documents	2 3 4	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my
3 4 ti 5 ti	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you	2 3 4 5	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly
3 4 ti 5 ti	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you obtained on your own?	2 3 4 5	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly rate to \$600.
3 4 ti 5 ti 6 ci 7	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you obtained on your own? A. I don't believe I'd be able to make	2 3 4 5 6 7	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly rate to \$600. Q. What does it mean on the first page
3 4 ti 5 ti 6 ci 7 8 ti	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you obtained on your own? A. I don't believe I'd be able to make hat separation.	2 3 4 5 6 7 8	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly rate to \$600. Q. What does it mean on the first page of Exhibit Number 2 where it says "Total received:
3 4 td 5 td 6 cd 7 8 td 9	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you obtained on your own? A. I don't believe I'd be able to make hat separation. Q. The next two entries well, first	2 3 4 5 6 7 8 9	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly rate to \$600. Q. What does it mean on the first page of Exhibit Number 2 where it says "Total received: 9,000. Balance due: 4500"?
3 4 th 5 th 6 co 7 8 th 9 10 co	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you obtained on your own? A. I don't believe I'd be able to make hat separation. Q. The next two entries well, first of all, before I go there, did you read all the	2 3 4 5 6 7 8 9	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly rate to \$600. Q. What does it mean on the first page of Exhibit Number 2 where it says "Total received: 9,000. Balance due: 4500"? A. The 9,000 was equated to these hours
3 4 til 5 til 6 co 7 8 til 9 10 co 11 do	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you obtained on your own? A. I don't believe I'd be able to make hat separation. Q. The next two entries well, first of all, before I go there, did you read all the documents that Mr. Tisi's office provided to you?	2 3 4 5 6 7 8 9 10 11	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly rate to \$600. Q. What does it mean on the first page of Exhibit Number 2 where it says "Total received: 9,000. Balance due: 4500"? A. The 9,000 was equated to these hours at a rate of \$400 per hour, and then when we
3 4 til 5 til 6 co 7 8 til 9 10 co 11 do 12	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you obtained on your own? A. I don't believe I'd be able to make hat separation. Q. The next two entries well, first of all, before I go there, did you read all the documents that Mr. Tisi's office provided to you? A. I read all the literature that he	2 3 4 5 6 7 8 9 10 11 12	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly rate to \$600. Q. What does it mean on the first page of Exhibit Number 2 where it says "Total received: 9,000. Balance due: 4500"? A. The 9,000 was equated to these hours at a rate of \$400 per hour, and then when we changed it to 600, that's what was added in.
3 4 th 5 th 6 co 7 8 th 9 10 co 11 do 12 13 p	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you obtained on your own? A. I don't believe I'd be able to make hat separation. Q. The next two entries well, first of all, before I go there, did you read all the documents that Mr. Tisi's office provided to you? A. I read all the literature that he provided, yes.	2 3 4 5 6 7 8 9 10 11 12 13	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly rate to \$600. Q. What does it mean on the first page of Exhibit Number 2 where it says "Total received: 9,000. Balance due: 4500"? A. The 9,000 was equated to these hours at a rate of \$400 per hour, and then when we changed it to 600, that's what was added in. Q. Please turn to your January 2024
3 4 ti 5 ti 6 co 7 8 ti 9 10 co 11 do 12 13 p 14	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you obtained on your own? A. I don't believe I'd be able to make hat separation. Q. The next two entries well, first of all, before I go there, did you read all the documents that Mr. Tisi's office provided to you? A. I read all the literature that he provided, yes. Q. The next couple entries refer to	2 3 4 5 6 7 8 9 10 11 12 13 14	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly rate to \$600. Q. What does it mean on the first page of Exhibit Number 2 where it says "Total received: 9,000. Balance due: 4500"? A. The 9,000 was equated to these hours at a rate of \$400 per hour, and then when we changed it to 600, that's what was added in. Q. Please turn to your January 2024 invoice, invoice number 2.
3 4 td 5 td 6 cd 7 8 td 9 10 cd 11 dd 12 13 pd 14 15 "	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you obtained on your own? A. I don't believe I'd be able to make that separation. Q. The next two entries well, first of all, before I go there, did you read all the documents that Mr. Tisi's office provided to you? A. I read all the literature that he provided, yes. Q. The next couple entries refer to review of current epi studies."	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly rate to \$600. Q. What does it mean on the first page of Exhibit Number 2 where it says "Total received: 9,000. Balance due: 4500"? A. The 9,000 was equated to these hours at a rate of \$400 per hour, and then when we changed it to 600, that's what was added in. Q. Please turn to your January 2024 invoice, invoice number 2. A. Yes.
3 4 ti 5 ti 6 co 7 8 ti 9 10 co 11 do 12 13 pr 14 15 " 16	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you obtained on your own? A. I don't believe I'd be able to make hat separation. Q. The next two entries well, first of all, before I go there, did you read all the documents that Mr. Tisi's office provided to you? A. I read all the literature that he provided, yes. Q. The next couple entries refer to 'Review of current epi studies." How many epi studies does that refer	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly rate to \$600. Q. What does it mean on the first page of Exhibit Number 2 where it says "Total received: 9,000. Balance due: 4500"? A. The 9,000 was equated to these hours at a rate of \$400 per hour, and then when we changed it to 600, that's what was added in. Q. Please turn to your January 2024 invoice, invoice number 2. A. Yes. Q. At the top, the entry dated
3 4 ti 5 ti 6 co 7 8 ti 9 10 co 11 do 12 13 p 14 15 " 16 17 to 17 to 18 ti 18	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you obtained on your own? A. I don't believe I'd be able to make hat separation. Q. The next two entries well, first of all, before I go there, did you read all the documents that Mr. Tisi's office provided to you? A. I read all the literature that he provided, yes. Q. The next couple entries refer to 'Review of current epi studies." How many epi studies does that refer oo?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly rate to \$600. Q. What does it mean on the first page of Exhibit Number 2 where it says "Total received: 9,000. Balance due: 4500"? A. The 9,000 was equated to these hours at a rate of \$400 per hour, and then when we changed it to 600, that's what was added in. Q. Please turn to your January 2024 invoice, invoice number 2. A. Yes. Q. At the top, the entry dated October 23, 2023, it says "Discussion of Draft
3 4 ti 5 ti 6 co 7 8 ti 9 10 co 11 do 12 13 p 14 15 " 16 17 to 18	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you obtained on your own? A. I don't believe I'd be able to make hat separation. Q. The next two entries well, first of all, before I go there, did you read all the documents that Mr. Tisi's office provided to you? A. I read all the literature that he provided, yes. Q. The next couple entries refer to review of current epi studies." How many epi studies does that refer or? A. I don't recall.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly rate to \$600. Q. What does it mean on the first page of Exhibit Number 2 where it says "Total received: 9,000. Balance due: 4500"? A. The 9,000 was equated to these hours at a rate of \$400 per hour, and then when we changed it to 600, that's what was added in. Q. Please turn to your January 2024 invoice, invoice number 2. A. Yes. Q. At the top, the entry dated October 23, 2023, it says "Discussion of Draft Report Submitted."
3 4 ti 5 ti 6 co 7 8 ti 9 10 co 11 do 12 13 p 14 15 " 16 17 to 18 19	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you obtained on your own? A. I don't believe I'd be able to make hat separation. Q. The next two entries well, first of all, before I go there, did you read all the documents that Mr. Tisi's office provided to you? A. I read all the literature that he provided, yes. Q. The next couple entries refer to 'Review of current epi studies." How many epi studies does that refer to? A. I don't recall. Q. The next one says "Review of current	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly rate to \$600. Q. What does it mean on the first page of Exhibit Number 2 where it says "Total received: 9,000. Balance due: 4500"? A. The 9,000 was equated to these hours at a rate of \$400 per hour, and then when we changed it to 600, that's what was added in. Q. Please turn to your January 2024 invoice, invoice number 2. A. Yes. Q. At the top, the entry dated October 23, 2023, it says "Discussion of Draft Report Submitted." Who was that discussion with?
3 4 ti 5 ti 6 co 7 8 ti 9 10 co 11 do 12 13 p 14 15 " 16 17 to 18 19 20 li	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you obtained on your own? A. I don't believe I'd be able to make hat separation. Q. The next two entries well, first of all, before I go there, did you read all the documents that Mr. Tisi's office provided to you? A. I read all the literature that he provided, yes. Q. The next couple entries refer to 'Review of current epi studies." How many epi studies does that refer oo? A. I don't recall. Q. The next one says "Review of current iterature."	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly rate to \$600. Q. What does it mean on the first page of Exhibit Number 2 where it says "Total received: 9,000. Balance due: 4500"? A. The 9,000 was equated to these hours at a rate of \$400 per hour, and then when we changed it to 600, that's what was added in. Q. Please turn to your January 2024 invoice, invoice number 2. A. Yes. Q. At the top, the entry dated October 23, 2023, it says "Discussion of Draft Report Submitted." Who was that discussion with? A. With Mr. Tisi and his colleagues.
3 4 ti 5 ti 6 co 7 8 ti 9 10 co 11 do 12 13 p 14 15 " 16 17 to 18 19 20 p 12 21	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you obtained on your own? A. I don't believe I'd be able to make hat separation. Q. The next two entries well, first of all, before I go there, did you read all the documents that Mr. Tisi's office provided to you? A. I read all the literature that he provided, yes. Q. The next couple entries refer to 'Review of current epi studies." How many epi studies does that refer to? A. I don't recall. Q. The next one says "Review of current iterature." Is that different than epi studies?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly rate to \$600. Q. What does it mean on the first page of Exhibit Number 2 where it says "Total received: 9,000. Balance due: 4500"? A. The 9,000 was equated to these hours at a rate of \$400 per hour, and then when we changed it to 600, that's what was added in. Q. Please turn to your January 2024 invoice, invoice number 2. A. Yes. Q. At the top, the entry dated October 23, 2023, it says "Discussion of Draft Report Submitted." Who was that discussion with? A. With Mr. Tisi and his colleagues. Q. What other who what colleagues
3 4 ti 5 ti 6 co 7 8 ti 9 10 co 11 do 12 13 p 14 15 " 16 17 to 18 19 20 li 21 22	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you obtained on your own? A. I don't believe I'd be able to make hat separation. Q. The next two entries well, first of all, before I go there, did you read all the documents that Mr. Tisi's office provided to you? A. I read all the literature that he provided, yes. Q. The next couple entries refer to review of current epi studies." How many epi studies does that refer or? A. I don't recall. Q. The next one says "Review of current iterature." Is that different than epi studies? A. It's a combination of both, of both	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly rate to \$600. Q. What does it mean on the first page of Exhibit Number 2 where it says "Total received: 9,000. Balance due: 4500"? A. The 9,000 was equated to these hours at a rate of \$400 per hour, and then when we changed it to 600, that's what was added in. Q. Please turn to your January 2024 invoice, invoice number 2. A. Yes. Q. At the top, the entry dated October 23, 2023, it says "Discussion of Draft Report Submitted." Who was that discussion with? A. With Mr. Tisi and his colleagues. Q. What other who what colleagues besides Mr. Tisi?
3 4 ti 5 ti 6 co 7 8 ti 9 10 co 11 do 12 13 p 14 15 " 16 17 to 18 19 20 11 22 23 e	Q. If you had the time, could you go hrough the notebooks and identify which documents hat Mr. Tisi provided to you and which you obtained on your own? A. I don't believe I'd be able to make hat separation. Q. The next two entries well, first of all, before I go there, did you read all the documents that Mr. Tisi's office provided to you? A. I read all the literature that he provided, yes. Q. The next couple entries refer to 'Review of current epi studies." How many epi studies does that refer to? A. I don't recall. Q. The next one says "Review of current iterature." Is that different than epi studies?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. It was the first installment. I originally was charging \$400 an hour and after discussion realized that I was underestimating my expert my expertise, and so I raised my hourly rate to \$600. Q. What does it mean on the first page of Exhibit Number 2 where it says "Total received: 9,000. Balance due: 4500"? A. The 9,000 was equated to these hours at a rate of \$400 per hour, and then when we changed it to 600, that's what was added in. Q. Please turn to your January 2024 invoice, invoice number 2. A. Yes. Q. At the top, the entry dated October 23, 2023, it says "Discussion of Draft Report Submitted." Who was that discussion with? A. With Mr. Tisi and his colleagues. Q. What other who what colleagues

		Page 50			Page 52
1	just I	don't exactly recall.	1	the colle	eagues involved in that deposition
2	O.	The next several entries say "Report			ion meeting?
3	Modific		3	A.	I'm sorry. I'm not that good with
4		What does "report modification"	4	names.	
	mean?		5	Q.	Was that deposition preparation
6	Α.	We we modified based on other		_	in person or by phone?
7	review (of our report by Mr. Tisi and his	7	A.	By by Zoom.
1		ies. Not to change our opinions about	8	Q.	Please turn to your invoice
	_	g but to elaborate in certain areas.	9	_	3, January/February 2024.
10		With regard to the "Discussion of	10	A.	Uh-huh.
		eport Submitted," was Dr. Rothman involved	11	Q.	At the top, the entry for January 8,
		iscussion, too?		-	ys "Meeting to discuss deposition."
13	Α.	Yes.	13	-	Was that again with Mr. Tisi and
14	Q.	The next several entries regarding		colleagu	_
	_	s and modifications of your report, did	15	A.	Yes.
1		his, those revisions and modifications,	16	Q.	Was that in person or on Zoom?
	•	e same process you told me a moment ago	17	A.	On Zoom. All of our meetings have
	_	ou were working with a living document?			Zoom, other than when I came down to DC.
19	A.	Yes.	19	Q.	With regard to your coming down to
20	Q.	The 11/8/2023 entry says "Meeting		-	en did you come down to DC?
	-	n and additional revisions."	21	A.	Actually, may I correct that
22	with ite	Was that an in-person meeting?		response	
23	A.	I don't recall.	23	Q.	Sure.
24	Q.	The November 10, 2023 entry says	24	Α.	I did have an in-person meeting the
<u> </u>	Ψ.				
1	"I egal	Page 51 team meeting and additional revisions."	1	wook bo	Page 53 efore I came down in Boston with Mr. Tisi
$\frac{1}{2}$	_	Who is "legal team"?			chole I came down in Boston with Mr. Tist
3		Mr. Tisi and his colleagues.		I came d	
4	_	Do you recall the names of any of	4	Q.	How long was that the meeting last
	_	leagues?		week?	How long was that the meeting last
6		Again, it would it would I	6	A.	About seven hours.
		I mean, it would possibly be Ms	7		You said you came down from Boston
		Dell and Michelle. There might have bee	1	_	•
1		eople on the call with us.	9	A.	On Monday.
10		That was what I was going to ask you	10	Q.	On Monday.
	next.	That was what I was going to ask you	11	٧.	Did you meet with Mr. Tisi and
12		Was that legal team meeting in		Ms Part	fitt yesterday?
		or on the phone?	13	A.	Yesterday evening, yes.
14	_	Zoom.	14	Q.	How long did you meet yesterday
15		The final entry on that invoice says		evening	
16	_	sition preparation."	16	A.	About one to two hours.
17	_	Was that deposition preparation with	17	Q.	The meeting yesterday and the
		ne else		_	last week were the only in-person meetings
19		Yes.		_	with Mr. Tisi and Ms. Parfitt?
20		or was that on your own?	20	A.	That's correct.
21	-	No, no. Yes. That would I'm	21	Q.	The other entries here with regard
		That was not on my own. It was with		-	sition preparation with lawyers, for
	SOLLA				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
22	-	-		_	
22	Mr. Tis	si and colleagues. Do you recall the names of any of		_	e, that was again by Zoom? Correct.

	Page 54	Page 56
1	Q. The depo prep meeting with lawyers,	1 since February 29, 2024?
2	that was by Zoom?	2 A. Maybe 20. It might be more because
3	A. That's correct.	3 of the long session that we had last week and,
4	Oh, there's the name of the other	4 obviously, what is occurring today. So, but other
5	deposition that I had reviewed.	5 than that, I would say it is less than 20 hours.
6	Q. Who is that?	6 Q. Going back to when you were first
7	A. Dr. Osan.	7 contacted about serving as an expert witness in
8	Q. This invoice also refers to you	8 this case, who contacted you?
9	reviewing Dr. Osan's report, correct?	9 A. Dr. Rothman.
10	A. That's correct.	10 Q. Did he tell you who had contacted
11	Q. Did you review her expert report for	11 him about serving as an expert witness in this
12	this litigation?	12 litigation?
13	A. I believe I reviewed the deposition.	13 A. I believe he must have mentioned
14	Q. So where it says "report," it should	14 he mentioned the name of the people he was working
15	be deposition?	15 with.
16	A. I think it should be, actually.	16 Q. Do you recall whose name he
17	Q. The entry of February 28, 2024	17 mentioned, or names?
18	refers to your review of Dr. Moorman's deposition,	18 A. I really I really don't recall
1	which you talked about earlier, right?	19 that, until we had our first meeting, and then I
20	A. Yes.	20 was introduced to Mr. Tisi.
21	Q. There's also the last entry or	21 Q. Was your first meeting prior to this
22	let me start over.	22 November this September 26, 2023 date on your
23	The last entry refers to "Deposition	23 first invoice?
24	preparation with lawyers."	24 A. No, it would not have been because I
	<u> </u>	
	Page 55	Page 57
1	Page 55 Was that again Mr. Tisi and	Page 57 1 would have invoiced for it.
1 2	Was that again Mr. Tisi and	1 would have invoiced for it.
		1 would have invoiced for it.2 Q. What did Dr. Rothman initially tell
2	Was that again Mr. Tisi and colleagues? A. Yes.	 1 would have invoiced for it. 2 Q. What did Dr. Rothman initially tell 3 you about potentially serving as an expert witness
3	Was that again Mr. Tisi and colleagues?	 1 would have invoiced for it. 2 Q. What did Dr. Rothman initially tell 3 you about potentially serving as an expert witness 4 in this litigation?
2 3 4	Was that again Mr. Tisi and colleagues? A. Yes. Q. Again by Zoom? A. Yes.	 would have invoiced for it. Q. What did Dr. Rothman initially tell you about potentially serving as an expert witness in this litigation? A. He didn't specifically ask me to be
2 3 4 5 6	Was that again Mr. Tisi and colleagues? A. Yes. Q. Again by Zoom? A. Yes.	 would have invoiced for it. Q. What did Dr. Rothman initially tell you about potentially serving as an expert witness in this litigation? A. He didn't specifically ask me to be an expert witness. He asked me to work with him
2 3 4 5 6 7	Was that again Mr. Tisi and colleagues? A. Yes. Q. Again by Zoom? A. Yes. Q. With regard to Dr. Osan, was she the	 would have invoiced for it. Q. What did Dr. Rothman initially tell you about potentially serving as an expert witness in this litigation? A. He didn't specifically ask me to be
2 3 4 5 6 7	Was that again Mr. Tisi and colleagues? A. Yes. Q. Again by Zoom? A. Yes. Q. With regard to Dr. Osan, was she the only defense expert's testimony that you have	 would have invoiced for it. Q. What did Dr. Rothman initially tell you about potentially serving as an expert witness in this litigation? A. He didn't specifically ask me to be an expert witness. He asked me to work with him on preparing a report on the current scientific
2 3 4 5 6 7 8	Was that again Mr. Tisi and colleagues? A. Yes. Q. Again by Zoom? A. Yes. Q. With regard to Dr. Osan, was she the only defense expert's testimony that you have reviewed for your work on this case?	 would have invoiced for it. Q. What did Dr. Rothman initially tell you about potentially serving as an expert witness in this litigation? A. He didn't specifically ask me to be an expert witness. He asked me to work with him on preparing a report on the current scientific evidence.
2 3 4 5 6 7 8 9 10	Was that again Mr. Tisi and colleagues? A. Yes. Q. Again by Zoom? A. Yes. Q. With regard to Dr. Osan, was she the only defense expert's testimony that you have reviewed for your work on this case? A. Yes.	 would have invoiced for it. Q. What did Dr. Rothman initially tell you about potentially serving as an expert witness in this litigation? A. He didn't specifically ask me to be an expert witness. He asked me to work with him on preparing a report on the current scientific evidence. Q. When did you become aware that that
2 3 4 5 6 7 8 9 10	Was that again Mr. Tisi and colleagues? A. Yes. Q. Again by Zoom? A. Yes. Q. With regard to Dr. Osan, was she the only defense expert's testimony that you have reviewed for your work on this case? A. Yes. Q. With regard to the invoices that	 would have invoiced for it. Q. What did Dr. Rothman initially tell you about potentially serving as an expert witness in this litigation? A. He didn't specifically ask me to be an expert witness. He asked me to work with him on preparing a report on the current scientific evidence. Q. When did you become aware that that report would be an expert report for litigation
2 3 4 5 6 7 8 9 10	Was that again Mr. Tisi and colleagues? A. Yes. Q. Again by Zoom? A. Yes. Q. With regard to Dr. Osan, was she the only defense expert's testimony that you have reviewed for your work on this case? A. Yes. Q. With regard to the invoices that we've been looking at, have you been paid for the	 would have invoiced for it. Q. What did Dr. Rothman initially tell you about potentially serving as an expert witness in this litigation? A. He didn't specifically ask me to be an expert witness. He asked me to work with him on preparing a report on the current scientific evidence. Q. When did you become aware that that report would be an expert report for litigation purposes?
2 3 4 5 6 7 8 9 10 11 12	Was that again Mr. Tisi and colleagues? A. Yes. Q. Again by Zoom? A. Yes. Q. With regard to Dr. Osan, was she the only defense expert's testimony that you have reviewed for your work on this case? A. Yes. Q. With regard to the invoices that we've been looking at, have you been paid for the amounts shown in the invoices?	 would have invoiced for it. Q. What did Dr. Rothman initially tell you about potentially serving as an expert witness in this litigation? A. He didn't specifically ask me to be an expert witness. He asked me to work with him on preparing a report on the current scientific evidence. Q. When did you become aware that that report would be an expert report for litigation purposes? A. After discussion with Mr. Tisi and
2 3 4 5 6 7 8 9 10 11 12 13 14	Was that again Mr. Tisi and colleagues? A. Yes. Q. Again by Zoom? A. Yes. Q. With regard to Dr. Osan, was she the only defense expert's testimony that you have reviewed for your work on this case? A. Yes. Q. With regard to the invoices that we've been looking at, have you been paid for the amounts shown in the invoices? A. Yes.	 would have invoiced for it. Q. What did Dr. Rothman initially tell you about potentially serving as an expert witness in this litigation? A. He didn't specifically ask me to be an expert witness. He asked me to work with him on preparing a report on the current scientific evidence. Q. When did you become aware that that report would be an expert report for litigation purposes? A. After discussion with Mr. Tisi and others.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Was that again Mr. Tisi and colleagues? A. Yes. Q. Again by Zoom? A. Yes. Q. With regard to Dr. Osan, was she the only defense expert's testimony that you have reviewed for your work on this case? A. Yes. Q. With regard to the invoices that we've been looking at, have you been paid for the amounts shown in the invoices? A. Yes. Q. Have you prepared any additional	 would have invoiced for it. Q. What did Dr. Rothman initially tell you about potentially serving as an expert witness in this litigation? A. He didn't specifically ask me to be an expert witness. He asked me to work with him on preparing a report on the current scientific evidence. Q. When did you become aware that that report would be an expert report for litigation purposes? A. After discussion with Mr. Tisi and others. Q. What did you understand prior to the
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Was that again Mr. Tisi and colleagues? A. Yes. Q. Again by Zoom? A. Yes. Q. With regard to Dr. Osan, was she the only defense expert's testimony that you have reviewed for your work on this case? A. Yes. Q. With regard to the invoices that we've been looking at, have you been paid for the amounts shown in the invoices? A. Yes. Q. Have you prepared any additional invoices for further work you have done since the	 would have invoiced for it. Q. What did Dr. Rothman initially tell you about potentially serving as an expert witness in this litigation? A. He didn't specifically ask me to be an expert witness. He asked me to work with him on preparing a report on the current scientific evidence. Q. When did you become aware that that report would be an expert report for litigation purposes? A. After discussion with Mr. Tisi and others. Q. What did you understand prior to the discussion with Mr. Tisi and others about why you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Was that again Mr. Tisi and colleagues? A. Yes. Q. Again by Zoom? A. Yes. Q. With regard to Dr. Osan, was she the only defense expert's testimony that you have reviewed for your work on this case? A. Yes. Q. With regard to the invoices that we've been looking at, have you been paid for the amounts shown in the invoices? A. Yes. Q. Have you prepared any additional invoices for further work you have done since the date of this last invoice?	 would have invoiced for it. Q. What did Dr. Rothman initially tell you about potentially serving as an expert witness in this litigation? A. He didn't specifically ask me to be an expert witness. He asked me to work with him on preparing a report on the current scientific evidence. Q. When did you become aware that that report would be an expert report for litigation purposes? A. After discussion with Mr. Tisi and others. Q. What did you understand prior to the discussion with Mr. Tisi and others about why you and Dr. Rothman were writing a report about talcum
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Was that again Mr. Tisi and colleagues? A. Yes. Q. Again by Zoom? A. Yes. Q. With regard to Dr. Osan, was she the only defense expert's testimony that you have reviewed for your work on this case? A. Yes. Q. With regard to the invoices that we've been looking at, have you been paid for the amounts shown in the invoices? A. Yes. Q. Have you prepared any additional invoices for further work you have done since the date of this last invoice? A. I have not submitted any invoices.	 would have invoiced for it. Q. What did Dr. Rothman initially tell you about potentially serving as an expert witness in this litigation? A. He didn't specifically ask me to be an expert witness. He asked me to work with him on preparing a report on the current scientific evidence. Q. When did you become aware that that report would be an expert report for litigation purposes? A. After discussion with Mr. Tisi and others. Q. What did you understand prior to the discussion with Mr. Tisi and others about why you and Dr. Rothman were writing a report about talcum powder and ovarian cancer?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Was that again Mr. Tisi and colleagues? A. Yes. Q. Again by Zoom? A. Yes. Q. With regard to Dr. Osan, was she the only defense expert's testimony that you have reviewed for your work on this case? A. Yes. Q. With regard to the invoices that we've been looking at, have you been paid for the amounts shown in the invoices? A. Yes. Q. Have you prepared any additional invoices for further work you have done since the date of this last invoice? A. I have not submitted any invoices. Q. Have you recorded the number of	1 would have invoiced for it. 2 Q. What did Dr. Rothman initially tell 3 you about potentially serving as an expert witness 4 in this litigation? 5 A. He didn't specifically ask me to be 6 an expert witness. He asked me to work with him 7 on preparing a report on the current scientific 8 evidence. 9 Q. When did you become aware that that 10 report would be an expert report for litigation 11 purposes? 12 A. After discussion with Mr. Tisi and 13 others. 14 Q. What did you understand prior to the 15 discussion with Mr. Tisi and others about why you 16 and Dr. Rothman were writing a report about talcum 17 powder and ovarian cancer? 18 A. Oh, I knew it was with respect to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Was that again Mr. Tisi and colleagues? A. Yes. Q. Again by Zoom? A. Yes. Q. With regard to Dr. Osan, was she the only defense expert's testimony that you have reviewed for your work on this case? A. Yes. Q. With regard to the invoices that we've been looking at, have you been paid for the amounts shown in the invoices? A. Yes. Q. Have you prepared any additional invoices for further work you have done since the date of this last invoice? A. I have not submitted any invoices. Q. Have you recorded the number of hours you have spent working on this litigation	1 would have invoiced for it. 2 Q. What did Dr. Rothman initially tell 3 you about potentially serving as an expert witness 4 in this litigation? 5 A. He didn't specifically ask me to be 6 an expert witness. He asked me to work with him 7 on preparing a report on the current scientific 8 evidence. 9 Q. When did you become aware that that 10 report would be an expert report for litigation 11 purposes? 12 A. After discussion with Mr. Tisi and 13 others. 14 Q. What did you understand prior to the 15 discussion with Mr. Tisi and others about why you 16 and Dr. Rothman were writing a report about talcum 17 powder and ovarian cancer? 18 A. Oh, I knew it was with respect to 19 litigation. 20 Q. There was never an understanding 21 that this would be for publication in a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Was that again Mr. Tisi and colleagues? A. Yes. Q. Again by Zoom? A. Yes. Q. With regard to Dr. Osan, was she the only defense expert's testimony that you have reviewed for your work on this case? A. Yes. Q. With regard to the invoices that we've been looking at, have you been paid for the amounts shown in the invoices? A. Yes. Q. Have you prepared any additional invoices for further work you have done since the date of this last invoice? A. I have not submitted any invoices. Q. Have you recorded the number of hours you have spent working on this litigation since September I'm sorry since February 29,	1 would have invoiced for it. 2 Q. What did Dr. Rothman initially tell 3 you about potentially serving as an expert witness 4 in this litigation? 5 A. He didn't specifically ask me to be 6 an expert witness. He asked me to work with him 7 on preparing a report on the current scientific 8 evidence. 9 Q. When did you become aware that that 10 report would be an expert report for litigation 11 purposes? 12 A. After discussion with Mr. Tisi and 13 others. 14 Q. What did you understand prior to the 15 discussion with Mr. Tisi and others about why you 16 and Dr. Rothman were writing a report about talcum 17 powder and ovarian cancer? 18 A. Oh, I knew it was with respect to 19 litigation. 20 Q. There was never an understanding 21 that this would be for publication in a 22 peer-reviewed journal, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Was that again Mr. Tisi and colleagues? A. Yes. Q. Again by Zoom? A. Yes. Q. With regard to Dr. Osan, was she the only defense expert's testimony that you have reviewed for your work on this case? A. Yes. Q. With regard to the invoices that we've been looking at, have you been paid for the amounts shown in the invoices? A. Yes. Q. Have you prepared any additional invoices for further work you have done since the date of this last invoice? A. I have not submitted any invoices. Q. Have you recorded the number of hours you have spent working on this litigation since September I'm sorry since February 29, 2024?	1 would have invoiced for it. 2 Q. What did Dr. Rothman initially tell 3 you about potentially serving as an expert witness 4 in this litigation? 5 A. He didn't specifically ask me to be 6 an expert witness. He asked me to work with him 7 on preparing a report on the current scientific 8 evidence. 9 Q. When did you become aware that that 10 report would be an expert report for litigation 11 purposes? 12 A. After discussion with Mr. Tisi and 13 others. 14 Q. What did you understand prior to the 15 discussion with Mr. Tisi and others about why you 16 and Dr. Rothman were writing a report about talcum 17 powder and ovarian cancer? 18 A. Oh, I knew it was with respect to 19 litigation. 20 Q. There was never an understanding 21 that this would be for publication in a

Page 58 Page 60 1 And then I had not done any work as after, I 1 about potentially serving as an expert witness in 2 this litigation, or what ultimately became serving 2 believe, 2017. 3 Q. Do you recall how much you invoiced 3 as an expert witness in this litigation, had you 4 ever been contacted by any plaintiff's lawyer 4 as part of that work? 5 A. I would say it was less than 5 about serving as an expert witness in a case 6 \$20,000. 6 involving talcum powder use? 7 How much were you charging an hour 7 Q. Not as an expert witness. 8 for that consultation work? 8 Had you ever been contacted by any 9 lawyer about cases involving talcum powder use to 9 I would have to go back and look, 10 but it was less than 400. It might have been 200 10 serve in any capacity? 11 I don't recall. It was probably in that range of 11 A. Yes. 12 Who contacted you about serving in 12 2 to 400. O. 13 any capacity in cases involving talcum powder use? 13 Q. To your knowledge, were you ever 14 disclosed as a testifying expert by these lawyers 14 15 MR. TISI: I'm sorry. What 15 or other lawyers prior to your disclosure in this was the question? I'm sorry. The phone 16 case? 16 17 Α. 17 went off so I missed it. Not that I'm aware of. 18 MR. HEGARTY: Sure. MR. HEGARTY: I'm going to 18 19 show you what I'm marking as Exhibit 19 BY MR. HEGARTY: 20 Number 4. 20 Q. Who contacted you initially -- or 21 21 strike that. (Document marked for 22 Who contacted you about serving in 22 identification as Harlow Exhibit 4.) 23 BY MR. HEGARTY: 23 the capacity as a consultant in cases involving 24 talcum powder use? 24 This is a designation of -- well, Q. Page 59 Page 61 1 MR. TISI: You may answer that 1 this is called -- this is a document titled 2 question. 2 "Plaintiff's Designation of Affirmative Experts" 3 3 in the case of Chakalos versus Johnson & Johnson. THE WITNESS: Members of certain law firms, and I would have to 4 A. Uh-huh. 4 5 5 pull up to tell you exactly who those Q. Please turn over to the second page, 6 and do you see where you're listed? 6 individuals were because I just don't recall their names. 7 A. 8 BY MR. HEGARTY: 8 Have you ever seen this designation Q. When you say "pull up," what would 9 or this document before today? 10 10 you have to look at? No, I don't -- I don't believe so. 11 I would -- I would look at invoices 11 I'm looking to make sure I didn't 12 that I -- that I provide -- I submitted to them 12 sign anything. (Laugh). No. 13 and that would -- yeah. 13 Please look at the last page. 14 Do you recall the names of any of 14 Do you recognize -- last two pages. Q. 15 the law firms? 15 Do you recognize any of those names? A. Sorry. I'm not that good with 16 A. Oh, right. 17 names. I would have to go back and look, 17 Yes. Yes. Carmen Scott from Motley 18 especially law firms. (Laugh). 18 Rice, yes. 19 Do you remember when it was you were 19 Q. Do you recognize any other names? 20 initially contacted about serving as a consultant 20 Well, Meghan Carter, I believe, yes. 21 by these law firms? 21 I don't believe I know -- I remember the others, 22 Yes. It was, I think, I believe it 22 any others. 23 was around 2015 or 2016, and I believe it was over 23 Oh, wait. You mean on the last page

24 here?

24 a two-year period collectively, maybe three years.

	Page 62		Page 64
1	Q. Yes, Doctor.	1	THE WITNESS: Yes.
2	A. Oh, I'm sorry.	2	BY MR. HEGARTY:
3	I believe the only two that I recall	3	Q. What was that opinion?
4	are Meghan Carter and Carmen Scott.	4	A. I don't
5	Q. Do you have any recollection of a	5	MR. TISI: Objection.
6	case called Chakalos versus Johnson & Johnson		Whatever yeah.
7	A. I do.	7	THE WITNESS: I don't recall.
8	Q. Did you review Ms. Chakalos's	8	MR. TISI: You may answer.
9	medical records?	9	THE WITNESS: I don't recall.
10	A. I did.	10	MR. TISI: Then that's fine.
11	Q. To your knowledge, though, you were	11	Let me just object because I
12	unaware that you had been designated as a	12	don't know that he knows he was
13	testifying expert in that case; is that correct?	13	designated as an expert. You asked him
14	A. That's correct.	14	that question, but he I would object,
15	Q. Did you prepare an expert report on	15	obviously, to any communications that he
16	the Chakalos case?	16	had with the lawyer on the basis of
17	MR. TISI: Let me just go	17	whatever Rule 26 privilege is.
18	though this. You can go off the record.	18	Because I don't want to put
19	MR. HEGARTY: Sure. Go off	19	words in his mouth, but I believe he
20	the record.	20	thought he was a consultant, but go
21	(Recess: 10:19 a.m	21	ahead.
22	10:28 a.m.)	22	BY MR. HEGARTY:
23	MR. HEGARTY: We are back on	23	Q. This can be a yes or no answer.
24	the record.	24	Do you recall if you reviewed any
	Page 63		Page 65
1	I think there was a discussion	1	other patient's medical records when you served in
2	prior to us starting about making a	2	this consulting capacity besides Ms. Chakalos's
3	statement as it relates to the New Jersey	3	medical records?
4	litigation?	4	A. I believe I did.
5	MR. TISI: Yes. First of all,	5	Q. Do you recall the number of other
6	we have agreed that an objection by one	6	women's records you reviewed?
7	is an objection by all. So that Tracy's	7	A. I would say it's no more than two or
8	objections would be preserved.	8	three.
9	And I don't know if there was	9	Q. Was it your understanding when you
10	a question pending at the time that we		reviewed their records that you had the totality
11	took a break.	11	of their medical records?
12	MR. HEGARTY: Was there a	12	A. Yes.
13	question pending?	13	Q. With regard to those review of those
14	` *		two or three other women's records, was that also
15	,	15	back in 2015 and 2016?
16	MR. HEGARTY: Okay. Okay.	16	A. It was during that time period, yes.
1	BY MR. HEGARTY:	17	Q. Since your consultation back in that
18	Q. You can answer that question.		time period of 2015-2016, have you reviewed the
19	A. Yeah. I don't believe I prepared an		medical records of any other woman who you
20	expert report on that case.	20	understood is claiming ovarian cancer from talcum
21	Q. Did you form an opinion as to the		powder use?
	cause of Ms. Chakalos's ovarian cancer?	22	A. Yeah. No.
22			
23	MR. TISI: That's a yes or no	23	Q. Do you still serve in a consulting
	MR. TISI: That's a yes or no	23	

	Dogs 66		Page 49
1	Page 66 that are shown in the document I've marked as	1	Page 68 this case besides in your capacity as a consultant
	Exhibit Number 4?		and expert witness?
3	A. Not that I'm aware of.	3	A. No.
4	Q. When did you understand that	4	Q. You know Dr. Daniel Cramer, correct
	consulting relationship ended?	5	A. Yes.
6		6	Q. Do you know him socially as well as
-	,	7	-
	information. I just never received any further communication from them.	8	A. Not recently.
9			•
	Q. Was the last submission you made before the COVID shutdown in 2020?	9 10	Q. Not recently socially?A. Correct. When we worked together,
11	A. Oh, well before that. Well before		we ran an office together, and there were times when we would have social events with our staff
	that.		
13	Q. Do you recall how long, how much		and colleagues.
	before?	14	,
15	A. Again, it was all during this period		an expert witness for plaintiffs' lawyers in cases
1	of time, 2015 to 2017, something like that. I		involving talcum powder use?
1	don't believe we shut down on COVID until 2019 was		A. Yes.
-	it?	18	
19	Q. 2020.		told you?
20	A. 2020, yeah.	20	
21	Q. Going back to your initial contact	21	Q. You also know Dr. John Godleski,
1	with Dr. Rothman about serving as an expert		correct?
	witness in this case	23	A. The name doesn't ring a bell.
24	MR. TISI: Are you done with	24	Q. I'm going to read you a list of
	Page 67		Page 69
1	this?		other plaintiffs' experts that have been
2	MR. HEGARTY: I'm done with	2	
3			designated in this case. Tell me if you know them
	that.	3	personally.
4	THE WITNESS: Should I give		personally. Dr. McTiernan?
5	THE WITNESS: Should I give this back to you?	3 4 5	personally. Dr. McTiernan? A. I know of her, and she and I trained
4 5 6	THE WITNESS: Should I give this back to you? BY MR. HEGARTY:	3 4 5	personally. Dr. McTiernan? A. I know of her, and she and I trained at the same time as the University of Washington.
4 5 6 7	THE WITNESS: Should I give this back to you? BY MR. HEGARTY: Q. You can keep those over on that	3 4 5 6 7	personally. Dr. McTiernan? A. I know of her, and she and I trained at the same time as the University of Washington. Q. Do you know Dr. Siemiatycki?
4 5 6 7 8	THE WITNESS: Should I give this back to you? BY MR. HEGARTY: Q. You can keep those over on that side.	3 4 5 6	personally. Dr. McTiernan? A. I know of her, and she and I trained at the same time as the University of Washington. Q. Do you know Dr. Siemiatycki? A. I do not know him. I know of him.
4 5 6 7 8 9	THE WITNESS: Should I give this back to you? BY MR. HEGARTY: Q. You can keep those over on that side. MR. TISI: Let me kind of keep	3 4 5 6 7	personally. Dr. McTiernan? A. I know of her, and she and I trained at the same time as the University of Washington. Q. Do you know Dr. Siemiatycki? A. I do not know him. I know of him. Q. Do you know Dr. Moorman?
4 5 6 7 8 9 10	THE WITNESS: Should I give this back to you? BY MR. HEGARTY: Q. You can keep those over on that side. MR. TISI: Let me kind of keep track of your exhibits.	3 4 5 6 7 8	personally. Dr. McTiernan? A. I know of her, and she and I trained at the same time as the University of Washington. Q. Do you know Dr. Siemiatycki? A. I do not know him. I know of him. Q. Do you know Dr. Moorman? A. I do not know her.
4 5 6 7 8 9 10 11	THE WITNESS: Should I give this back to you? BY MR. HEGARTY: Q. You can keep those over on that side. MR. TISI: Let me kind of keep track of your exhibits. THE WITNESS: Okay.	3 4 5 6 7 8 9	personally. Dr. McTiernan? A. I know of her, and she and I trained at the same time as the University of Washington. Q. Do you know Dr. Siemiatycki? A. I do not know him. I know of him. Q. Do you know Dr. Moorman? A. I do not know her. Q. Do you know Dr. Clarke-Pearson?
4 5 6 7 8 9 10 11 12	THE WITNESS: Should I give this back to you? BY MR. HEGARTY: Q. You can keep those over on that side. MR. TISI: Let me kind of keep track of your exhibits. THE WITNESS: Okay. BY MR. HEGARTY:	3 4 5 6 7 8 9	personally. Dr. McTiernan? A. I know of her, and she and I trained at the same time as the University of Washington. Q. Do you know Dr. Siemiatycki? A. I do not know him. I know of him. Q. Do you know Dr. Moorman? A. I do not know her. Q. Do you know Dr. Clarke-Pearson? A. No.
4 5 6 7 8 9 10 11 12 13	THE WITNESS: Should I give this back to you? BY MR. HEGARTY: Q. You can keep those over on that side. MR. TISI: Let me kind of keep track of your exhibits. THE WITNESS: Okay. BY MR. HEGARTY: Q. Going back to your initial contact	3 4 5 6 7 8 9 10 11 12 13	personally. Dr. McTiernan? A. I know of her, and she and I trained at the same time as the University of Washington. Q. Do you know Dr. Siemiatycki? A. I do not know him. I know of him. Q. Do you know Dr. Moorman? A. I do not know her. Q. Do you know Dr. Clarke-Pearson?
4 5 6 7 8 9 10 11 12 13 14	THE WITNESS: Should I give this back to you? BY MR. HEGARTY: Q. You can keep those over on that side. MR. TISI: Let me kind of keep track of your exhibits. THE WITNESS: Okay. BY MR. HEGARTY: Q. Going back to your initial contact with Dr. Rothman about serving as an expert	3 4 5 6 7 8 9 10 11 12	personally. Dr. McTiernan? A. I know of her, and she and I trained at the same time as the University of Washington. Q. Do you know Dr. Siemiatycki? A. I do not know him. I know of him. Q. Do you know Dr. Moorman? A. I do not know her. Q. Do you know Dr. Clarke-Pearson? A. No.
4 5 6 7 8 9 10 11 12 13 14 15	THE WITNESS: Should I give this back to you? BY MR. HEGARTY: Q. You can keep those over on that side. MR. TISI: Let me kind of keep track of your exhibits. THE WITNESS: Okay. BY MR. HEGARTY: Q. Going back to your initial contact with Dr. Rothman about serving as an expert witness in this litigation, did he encourage you	3 4 5 6 7 8 9 10 11 12 13	personally. Dr. McTiernan? A. I know of her, and she and I trained at the same time as the University of Washington. Q. Do you know Dr. Siemiatycki? A. I do not know him. I know of him. Q. Do you know Dr. Moorman? A. I do not know her. Q. Do you know Dr. Clarke-Pearson? A. No. Q. He's a gynecologic oncologist.
4 5 6 7 8 9 10 11 12 13 14 15 16	THE WITNESS: Should I give this back to you? BY MR. HEGARTY: Q. You can keep those over on that side. MR. TISI: Let me kind of keep track of your exhibits. THE WITNESS: Okay. BY MR. HEGARTY: Q. Going back to your initial contact with Dr. Rothman about serving as an expert witness in this litigation, did he encourage you to serve as an expert witness?	3 4 5 6 7 8 9 10 11 12 13 14	personally. Dr. McTiernan? A. I know of her, and she and I trained at the same time as the University of Washington. Q. Do you know Dr. Siemiatycki? A. I do not know him. I know of him. Q. Do you know Dr. Moorman? A. I do not know her. Q. Do you know Dr. Clarke-Pearson? A. No. Q. He's a gynecologic oncologist. A. No.
4 5 6 7 8 9 10 11 12 13 14 15 16 17	THE WITNESS: Should I give this back to you? BY MR. HEGARTY: Q. You can keep those over on that side. MR. TISI: Let me kind of keep track of your exhibits. THE WITNESS: Okay. BY MR. HEGARTY: Q. Going back to your initial contact with Dr. Rothman about serving as an expert witness in this litigation, did he encourage you to serve as an expert witness? A. No.	3 4 5 6 7 8 9 10 11 12 13 14 15	personally. Dr. McTiernan? A. I know of her, and she and I trained at the same time as the University of Washington. Q. Do you know Dr. Siemiatycki? A. I do not know him. I know of him. Q. Do you know Dr. Moorman? A. I do not know her. Q. Do you know Dr. Clarke-Pearson? A. No. Q. He's a gynecologic oncologist. A. No. Q. Do you know Dr. Cote?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	THE WITNESS: Should I give this back to you? BY MR. HEGARTY: Q. You can keep those over on that side. MR. TISI: Let me kind of keep track of your exhibits. THE WITNESS: Okay. BY MR. HEGARTY: Q. Going back to your initial contact with Dr. Rothman about serving as an expert witness in this litigation, did he encourage you to serve as an expert witness? A. No. Q. How did let me strike that.	3 4 5 6 7 8 9 10 11 12 13 14 15 16	personally. Dr. McTiernan? A. I know of her, and she and I trained at the same time as the University of Washington. Q. Do you know Dr. Siemiatycki? A. I do not know him. I know of him. Q. Do you know Dr. Moorman? A. I do not know her. Q. Do you know Dr. Clarke-Pearson? A. No. Q. He's a gynecologic oncologist. A. No. Q. Do you know Dr. Cote? A. No.
4 5 6 7 8 9 10 11 12 13 14 15 16 17	THE WITNESS: Should I give this back to you? BY MR. HEGARTY: Q. You can keep those over on that side. MR. TISI: Let me kind of keep track of your exhibits. THE WITNESS: Okay. BY MR. HEGARTY: Q. Going back to your initial contact with Dr. Rothman about serving as an expert witness in this litigation, did he encourage you to serve as an expert witness? A. No. Q. How did let me strike that.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	personally. Dr. McTiernan? A. I know of her, and she and I trained at the same time as the University of Washington. Q. Do you know Dr. Siemiatycki? A. I do not know him. I know of him. Q. Do you know Dr. Moorman? A. I do not know her. Q. Do you know Dr. Clarke-Pearson? A. No. Q. He's a gynecologic oncologist. A. No. Q. Do you know Dr. Cote? A. No. Q. Do you know Dr. Sonal Singh?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	THE WITNESS: Should I give this back to you? BY MR. HEGARTY: Q. You can keep those over on that side. MR. TISI: Let me kind of keep track of your exhibits. THE WITNESS: Okay. BY MR. HEGARTY: Q. Going back to your initial contact with Dr. Rothman about serving as an expert witness in this litigation, did he encourage you to serve as an expert witness? A. No. Q. How did let me strike that. Apart from anything that you were told by attorneys, do you know how Dr. Rothma	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	personally. Dr. McTiernan? A. I know of her, and she and I trained at the same time as the University of Washington. Q. Do you know Dr. Siemiatycki? A. I do not know him. I know of him. Q. Do you know Dr. Moorman? A. I do not know her. Q. Do you know Dr. Clarke-Pearson? A. No. Q. He's a gynecologic oncologist. A. No. Q. Do you know Dr. Cote? A. No. Q. Do you know Dr. Sonal Singh? A. No. Q. Do you know Dr. Smith-Bindman?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	THE WITNESS: Should I give this back to you? BY MR. HEGARTY: Q. You can keep those over on that side. MR. TISI: Let me kind of keep track of your exhibits. THE WITNESS: Okay. BY MR. HEGARTY: Q. Going back to your initial contact with Dr. Rothman about serving as an expert witness in this litigation, did he encourage you to serve as an expert witness? A. No. Q. How did let me strike that. Apart from anything that you were	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	personally. Dr. McTiernan? A. I know of her, and she and I trained at the same time as the University of Washington. Q. Do you know Dr. Siemiatycki? A. I do not know him. I know of him. Q. Do you know Dr. Moorman? A. I do not know her. Q. Do you know Dr. Clarke-Pearson? A. No. Q. He's a gynecologic oncologist. A. No. Q. Do you know Dr. Cote? A. No. Q. Do you know Dr. Sonal Singh? A. No. Q. Do you know Dr. Smith-Bindman?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	THE WITNESS: Should I give this back to you? BY MR. HEGARTY: Q. You can keep those over on that side. MR. TISI: Let me kind of keep track of your exhibits. THE WITNESS: Okay. BY MR. HEGARTY: Q. Going back to your initial contact with Dr. Rothman about serving as an expert witness in this litigation, did he encourage you to serve as an expert witness? A. No. Q. How did let me strike that. Apart from anything that you were told by attorneys, do you know how Dr. Rothma came to be contacted in the first place?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 n20	personally. Dr. McTiernan? A. I know of her, and she and I trained at the same time as the University of Washington. Q. Do you know Dr. Siemiatycki? A. I do not know him. I know of him. Q. Do you know Dr. Moorman? A. I do not know her. Q. Do you know Dr. Clarke-Pearson? A. No. Q. He's a gynecologic oncologist. A. No. Q. Do you know Dr. Cote? A. No. Q. Do you know Dr. Sonal Singh? A. No. Q. Do you know Dr. Smith-Bindman? A. No. Q. Do you Dr. Roberta Ness?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	THE WITNESS: Should I give this back to you? BY MR. HEGARTY: Q. You can keep those over on that side. MR. TISI: Let me kind of keep track of your exhibits. THE WITNESS: Okay. BY MR. HEGARTY: Q. Going back to your initial contact with Dr. Rothman about serving as an expert witness in this litigation, did he encourage you to serve as an expert witness? A. No. Q. How did let me strike that. Apart from anything that you were told by attorneys, do you know how Dr. Rothma came to be contacted in the first place? A. No.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 n20 21	personally. Dr. McTiernan? A. I know of her, and she and I trained at the same time as the University of Washington. Q. Do you know Dr. Siemiatycki? A. I do not know him. I know of him. Q. Do you know Dr. Moorman? A. I do not know her. Q. Do you know Dr. Clarke-Pearson? A. No. Q. He's a gynecologic oncologist. A. No. Q. Do you know Dr. Cote? A. No. Q. Do you know Dr. Sonal Singh? A. No. Q. Do you know Dr. Smith-Bindman? A. No. Q. Do you Dr. Roberta Ness?

D = 0	
Page 70 1 A. I know her professionally. We sat 1 have been involved, and my m	Page 72
2 on committees. We have attended the same meetings 2 Mr. Tisi and Ms. Parfitt.	am contact is with
3 often. And so when I see her in those capacity, 3 Q. During that initial di	scussion vou
4 we're very cordial professionally, but never had 4 had with Dr. Rothman, did you	
5 any kind of social event with her. 5 participate as an expert witnes	-
6 Q. Do you know that Dr. Ness serves as 6 litigation?	o in uno
7 an expert witness for plaintiffs in talcum powder 7 MR. TISI: Objecti	∩ n
8 cases? 8 Mischaracterizes his prior	
9 A. Yes. 9 said he was requested to v	
10 Q. How do you know that? 10 BY MR. HEGARTY:	The wrop of the
11 A. I was told. 11 Q. You can answer.	
12 Q. Were you told that by Dr. Ness? 12 A. No, I was not asked	by Dr. Rothman
13 A. No. 13 to serve as an expert witness.	
14 Q. Were you told that by attorneys in 14 Q. At what point in tim	e did vou agree
15 this case? 15 relative to your invoice dates t	
16 A. Yes. 16 expert witness for plaintiffs in	
17 Q. Have you ever talked to 17 A. After Dr. Rothman a	=
MR. TISI: I let that one slip 18 completed our report.	
by the way. Go ahead. 19 Q. What when from the state of the state o	he invoices we
20 BY MR. HEGARTY: 20 looked at did you complete yo	
21 Q. Have you ever talked to Dr. Ness 21 A. Can I refer back to the	=
22 about her or you serving as an expert witness in 22 Q. Sure.	
23 cases involving talcum powder use? 23 MR. TISI: I got th	em right
24 A. No. 24 here. I've given you my c	-
Page 71	Page 73
	: No, no. That's
2 about his experiences in serving as an expert 2 okay.	•
3 witness in talcum powder cases? 3 (Reviews docum	nent.)
4 A. No. I would yeah,	•
5 Q. Has Dr. Cramer or Dr. Ness or any 5 by the end of November	*
6 other colleague of yours, or someone who's in the 6 BY MR. HEGARTY:	
7 same profession, ever encouraged you to 7 Q. How was it that it	was till the end
8 participate in this litigation as an expert 8 of November 2023 that you	
9 witness? 9 expert witness for plaintiffs	
	in this litigation?
10 A. 110.	~
11 Q. Did you consult with anyone outside 11 report and it was I was asked	en we completed the
	en we completed the
11 Q. Did you consult with anyone outside 12 of attorneys prior to agreeing to serve as an 12 capacity.	en we completed the d to be in that
11 Q. Did you consult with anyone outside 12 of attorneys prior to agreeing to serve as an 12 capacity.	en we completed the d to be in that derstand your work to
11 Q. Did you consult with anyone outside 12 of attorneys prior to agreeing to serve as an 13 expert witness in this litigation? 11 report and it was I was asked 12 capacity. 13 Q. What did you und	en we completed the d to be in that lerstand your work to
11 Q. Did you consult with anyone outside 12 of attorneys prior to agreeing to serve as an 13 expert witness in this litigation? 14 A. Only to the extent of knowing what I 11 report and it was I was asked 12 capacity. 13 Q. What did you und 14 be prior to being asked to see	en we completed the d to be in that derstand your work to erve as an expert
11 Q. Did you consult with anyone outside 12 of attorneys prior to agreeing to serve as an 13 expert witness in this litigation? 14 A. Only to the extent of knowing what I 15 should charge, as I indicated before. 11 report and it was I was asked 12 capacity. 13 Q. What did you und 14 be prior to being asked to see the prior to be a prior	en we completed the d to be in that lerstand your work to erve as an expert ed is to prepare a
11 Q. Did you consult with anyone outside 12 of attorneys prior to agreeing to serve as an 13 expert witness in this litigation? 14 A. Only to the extent of knowing what I 15 should charge, as I indicated before. 16 Q. You mentioned Mr. Tisi and you 11 report and it was I was asked 12 capacity. 13 Q. What did you und 14 be prior to being asked to so 15 witness in this litigation? 16 A. Prior to being ask	en we completed the d to be in that derstand your work to erve as an expert ed is to prepare a idence.
11 Q. Did you consult with anyone outside 12 of attorneys prior to agreeing to serve as an 13 expert witness in this litigation? 14 A. Only to the extent of knowing what I 15 should charge, as I indicated before. 16 Q. You mentioned Mr. Tisi and you 17 mentioned Ms. Parfitt. You mentioned perhaps 11 report and it was I was asked 12 capacity. 13 Q. What did you und 14 be prior to being asked to so 15 witness in this litigation? 16 A. Prior to being ask 17 report on the state of the ev	en we completed the d to be in that derstand your work to erve as an expert ed is to prepare a idence. derstand your
11 Q. Did you consult with anyone outside 12 of attorneys prior to agreeing to serve as an 13 expert witness in this litigation? 14 A. Only to the extent of knowing what I 15 should charge, as I indicated before. 16 Q. You mentioned Mr. Tisi and you 17 mentioned Ms. Parfitt. You mentioned perhaps 18 Ms. O'Dell. 11 report and it was I was asked 12 capacity. 13 Q. What did you und 14 be prior to being asked to so 15 witness in this litigation? 16 A. Prior to being ask 17 report on the state of the even the service of the even the	en we completed the d to be in that derstand your work to erve as an expert ed is to prepare a idence. derstand your in preparing that
11 Q. Did you consult with anyone outside 12 of attorneys prior to agreeing to serve as an 13 expert witness in this litigation? 14 A. Only to the extent of knowing what I 15 should charge, as I indicated before. 16 Q. You mentioned Mr. Tisi and you 17 mentioned Ms. Parfitt. You mentioned perhaps 18 Ms. O'Dell. 19 Do you recall the names of any other 11 report and it was I was asked 12 capacity. 13 Q. What did you und 14 be prior to being asked to so 15 witness in this litigation? 16 A. Prior to being ask 17 report on the state of the ev 18 Q. What did you und 19 capacity to be in preserving	en we completed the d to be in that derstand your work to erve as an expert ed is to prepare a idence. derstand your in preparing that an expert, retained
11 Q. Did you consult with anyone outside 12 of attorneys prior to agreeing to serve as an 13 expert witness in this litigation? 14 A. Only to the extent of knowing what I 15 should charge, as I indicated before. 16 Q. You mentioned Mr. Tisi and you 17 mentioned Ms. Parfitt. You mentioned perhaps 18 Ms. O'Dell. 19 Do you recall the names of any other 20 lawyers that you have worked with as part of your 11 report and it was I was asked 12 capacity. 13 Q. What did you und 14 be prior to being asked to so 15 witness in this litigation? 16 A. Prior to being ask 17 report on the state of the ev 18 Q. What did you und 19 capacity to be in preserving 20 report? As a consultant, as	en we completed the d to be in that derstand your work to erve as an expert ed is to prepare a idence. derstand your in preparing that an expert, retained g else?
11 Q. Did you consult with anyone outside 12 of attorneys prior to agreeing to serve as an 13 expert witness in this litigation? 14 A. Only to the extent of knowing what I 15 should charge, as I indicated before. 16 Q. You mentioned Mr. Tisi and you 17 mentioned Ms. Parfitt. You mentioned perhaps 18 Ms. O'Dell. 19 Do you recall the names of any other 20 lawyers that you have worked with as part of your 21 involvement in the talcum powder litigation that 11 report and it was I was asked 12 capacity. 13 Q. What did you und 14 be prior to being asked to so 15 witness in this litigation? 16 A. Prior to being ask 17 report on the state of the ev 18 Q. What did you und 19 capacity to be in preserving 20 report? As a consultant, as 21 expert witness, or somethin	en we completed the det to be in that derstand your work to erve as an expert ed is to prepare a dedence. derstand your in preparing that an expert, retained g else? k of it in that the the report. I was

D 74	D 76
Page 74 1 about how I would be classified one way or	Page 76 1 asked first by Mr. Tisi and others to be involved
2 another.	2 MR. HEGARTY: We'll go ahead
3 Q. Now, with regard to what we've been	3 for purposes of the record to mark your
4 talking about here today and recently in just the	4 report. We are on Exhibit Number 6. So
5 last few moments, you did review materials that	1
6 plaintiffs' counsel provided and that you obtained	
7 yourself and prepared an expert report, correct?	7 report I want to make clear.
8 A. That's correct.	8 I'm on Exhibit Number 5?
	9 MS. PARFITT: I have 5. 4 was
9 Q. That expert report is dated 10 November 15, 2023?	
· ·	
J 13	
Your expert report is dated	expert report we've been provided for you
14 November 15, 2023?	14 for this case.
15 A. Again, on my copy it just says	15 (Document marked for
16 November 2023.	16 identification as Harlow Exhibit 5.)
17 Q. Is there a date at the end with your	17 BY MR. HEGARTY:
18 signature?	18 Q. It does have a cover page which you
19 A. Ah. Quite likely. Let me see.	19 might not have seen before.
MR. TISI: I think that was	A. It also looks a lot thicker.
21 the date it was submitted.	MR. TISI: Was Number 3 his
THE WITNESS: No, there isn't	22 CV?
23 a date.	23 THE WITNESS: Oh, this is
24 BY MR. HEGARTY:	it has my CV in here as well.
Page 75	
1 Q. You were compensated for the work	1 MS. PARFITT: Number 3 is his
1 Q. You were compensated for the work 2 you did on your expert report; is that correct?	1 MS. PARFITT: Number 3 is his 2 CV. CV is separate.
 Q. You were compensated for the work you did on your expert report; is that correct? A. That's correct. 	1 MS. PARFITT: Number 3 is his 2 CV. CV is separate. 3 BY MR. HEGARTY:
 Q. You were compensated for the work you did on your expert report; is that correct? A. That's correct. Q. You wrote your expert report with 	 MS. PARFITT: Number 3 is his CV. CV is separate. BY MR. HEGARTY: Q. So Dr. Harlow I'm sorry,
 Q. You were compensated for the work you did on your expert report; is that correct? A. That's correct. Q. You wrote your expert report with Dr. Rothman, correct? 	 MS. PARFITT: Number 3 is his CV. CV is separate. BY MR. HEGARTY: Q. So Dr. Harlow I'm sorry, Dr. Rothman Harlow, with regard to your expert
 Q. You were compensated for the work you did on your expert report; is that correct? A. That's correct. Q. You wrote your expert report with Dr. Rothman, correct? A. Yes. 	1 MS. PARFITT: Number 3 is his 2 CV. CV is separate. 3 BY MR. HEGARTY: 4 Q. So Dr. Harlow I'm sorry, 5 Dr. Rothman Harlow, with regard to your expert 6 report that we're looking at, Exhibit Number 5
 Q. You were compensated for the work you did on your expert report; is that correct? A. That's correct. Q. You wrote your expert report with Dr. Rothman, correct? A. Yes. Q. Are you aware that plaintiffs' 	1 MS. PARFITT: Number 3 is his 2 CV. CV is separate. 3 BY MR. HEGARTY: 4 Q. So Dr. Harlow I'm sorry, 5 Dr. Rothman Harlow, with regard to your expert 6 report that we're looking at, Exhibit Number 5 7 A. Oh, right. Yeah.
 Q. You were compensated for the work you did on your expert report; is that correct? A. That's correct. Q. You wrote your expert report with Dr. Rothman, correct? A. Yes. Q. Are you aware that plaintiffs' counsel in this case has withdrawn Dr. Rothman as 	1 MS. PARFITT: Number 3 is his 2 CV. CV is separate. 3 BY MR. HEGARTY: 4 Q. So Dr. Harlow I'm sorry, 5 Dr. Rothman Harlow, with regard to your expert 6 report that we're looking at, Exhibit Number 5 7 A. Oh, right. Yeah. 8 Q is the first part of these pages
 Q. You were compensated for the work you did on your expert report; is that correct? A. That's correct. Q. You wrote your expert report with Dr. Rothman, correct? A. Yes. Q. Are you aware that plaintiffs' counsel in this case has withdrawn Dr. Rothman as an expert? 	1 MS. PARFITT: Number 3 is his 2 CV. CV is separate. 3 BY MR. HEGARTY: 4 Q. So Dr. Harlow I'm sorry, 5 Dr. Rothman Harlow, with regard to your expert 6 report that we're looking at, Exhibit Number 5 7 A. Oh, right. Yeah. 8 Q is the first part of these pages 9 specifically 1 through 24 your expert report?
 Q. You were compensated for the work you did on your expert report; is that correct? A. That's correct. Q. You wrote your expert report with Dr. Rothman, correct? A. Yes. Q. Are you aware that plaintiffs' counsel in this case has withdrawn Dr. Rothman as an expert? A. Yes. 	MS. PARFITT: Number 3 is his CV. CV is separate. BY MR. HEGARTY: Q. So Dr. Harlow I'm sorry, Dr. Rothman Harlow, with regard to your expert report that we're looking at, Exhibit Number 5 A. Oh, right. Yeah. Q is the first part of these pages specifically 1 through 24 your expert report? A. Yes, it is.
 Q. You were compensated for the work you did on your expert report; is that correct? A. That's correct. Q. You wrote your expert report with Dr. Rothman, correct? A. Yes. Q. Are you aware that plaintiffs' counsel in this case has withdrawn Dr. Rothman as an expert? A. Yes. Q. Did you discuss Dr. Rothman's 	1 MS. PARFITT: Number 3 is his 2 CV. CV is separate. 3 BY MR. HEGARTY: 4 Q. So Dr. Harlow I'm sorry, 5 Dr. Rothman Harlow, with regard to your expert 6 report that we're looking at, Exhibit Number 5 7 A. Oh, right. Yeah. 8 Q is the first part of these pages 9 specifically 1 through 24 your expert report? 10 A. Yes, it is. 11 Q. It also includes as exhibits your
 Q. You were compensated for the work you did on your expert report; is that correct? A. That's correct. Q. You wrote your expert report with Dr. Rothman, correct? A. Yes. Q. Are you aware that plaintiffs' counsel in this case has withdrawn Dr. Rothman as an expert? A. Yes. Q. Did you discuss Dr. Rothman's withdrawal with Dr. Rothman? 	1 MS. PARFITT: Number 3 is his 2 CV. CV is separate. 3 BY MR. HEGARTY: 4 Q. So Dr. Harlow I'm sorry, 5 Dr. Rothman Harlow, with regard to your expert 6 report that we're looking at, Exhibit Number 5 7 A. Oh, right. Yeah. 8 Q is the first part of these pages 9 specifically 1 through 24 your expert report? 10 A. Yes, it is. 11 Q. It also includes as exhibits your 12 curriculum vitae, the curriculum vitae of and
1 Q. You were compensated for the work 2 you did on your expert report; is that correct? 3 A. That's correct. 4 Q. You wrote your expert report with 5 Dr. Rothman, correct? 6 A. Yes. 7 Q. Are you aware that plaintiffs' 8 counsel in this case has withdrawn Dr. Rothman as 9 an expert? 10 A. Yes. 11 Q. Did you discuss Dr. Rothman's 12 withdrawal with Dr. Rothman? 13 A. No.	1 MS. PARFITT: Number 3 is his 2 CV. CV is separate. 3 BY MR. HEGARTY: 4 Q. So Dr. Harlow I'm sorry, 5 Dr. Rothman Harlow, with regard to your expert 6 report that we're looking at, Exhibit Number 5 7 A. Oh, right. Yeah. 8 Q is the first part of these pages 9 specifically 1 through 24 your expert report? 10 A. Yes, it is. 11 Q. It also includes as exhibits your 12 curriculum vitae, the curriculum vitae of and 13 the curriculum vitae of Dr. Harlow, as well as a
1 Q. You were compensated for the work 2 you did on your expert report; is that correct? 3 A. That's correct. 4 Q. You wrote your expert report with 5 Dr. Rothman, correct? 6 A. Yes. 7 Q. Are you aware that plaintiffs' 8 counsel in this case has withdrawn Dr. Rothman as 9 an expert? 10 A. Yes. 11 Q. Did you discuss Dr. Rothman's 12 withdrawal with Dr. Rothman? 13 A. No. 14 Q. Apart from any discussions you had	MS. PARFITT: Number 3 is his CV. CV is separate. BY MR. HEGARTY: Q. So Dr. Harlow I'm sorry, Dr. Rothman Harlow, with regard to your expert report that we're looking at, Exhibit Number 5 A. Oh, right. Yeah. Q is the first part of these pages specifically 1 through 24 your expert report? A. Yes, it is. Q. It also includes as exhibits your curriculum vitae, the curriculum vitae of and the curriculum vitae of Dr. Harlow, as well as a list at the end which is a Materials Considered
1 Q. You were compensated for the work 2 you did on your expert report; is that correct? 3 A. That's correct. 4 Q. You wrote your expert report with 5 Dr. Rothman, correct? 6 A. Yes. 7 Q. Are you aware that plaintiffs' 8 counsel in this case has withdrawn Dr. Rothman as 9 an expert? 10 A. Yes. 11 Q. Did you discuss Dr. Rothman's 12 withdrawal with Dr. Rothman? 13 A. No.	MS. PARFITT: Number 3 is his CV. CV is separate. BY MR. HEGARTY: Q. So Dr. Harlow I'm sorry, Dr. Rothman Harlow, with regard to your expert report that we're looking at, Exhibit Number 5 A. Oh, right. Yeah. Q is the first part of these pages specifically 1 through 24 your expert report? A. Yes, it is. Q. It also includes as exhibits your curriculum vitae, the curriculum vitae of and the curriculum vitae of Dr. Harlow, as well as a list at the end which is a Materials Considered list, Exhibit C.
1 Q. You were compensated for the work 2 you did on your expert report; is that correct? 3 A. That's correct. 4 Q. You wrote your expert report with 5 Dr. Rothman, correct? 6 A. Yes. 7 Q. Are you aware that plaintiffs' 8 counsel in this case has withdrawn Dr. Rothman as 9 an expert? 10 A. Yes. 11 Q. Did you discuss Dr. Rothman's 12 withdrawal with Dr. Rothman? 13 A. No. 14 Q. Apart from any discussions you had 15 with counsel for plaintiffs, do you know why he 16 has been withdrawn as an expert witness?	MS. PARFITT: Number 3 is his CV. CV is separate. BY MR. HEGARTY: Q. So Dr. Harlow I'm sorry, Dr. Rothman Harlow, with regard to your expert report that we're looking at, Exhibit Number 5 A. Oh, right. Yeah. Q is the first part of these pages specifically 1 through 24 your expert report? A. Yes, it is. Q. It also includes as exhibits your curriculum vitae, the curriculum vitae of and the curriculum vitae of Dr. Harlow, as well as a list at the end which is a Materials Considered list, Exhibit C. Do you see that?
1 Q. You were compensated for the work 2 you did on your expert report; is that correct? 3 A. That's correct. 4 Q. You wrote your expert report with 5 Dr. Rothman, correct? 6 A. Yes. 7 Q. Are you aware that plaintiffs' 8 counsel in this case has withdrawn Dr. Rothman as 9 an expert? 10 A. Yes. 11 Q. Did you discuss Dr. Rothman's 12 withdrawal with Dr. Rothman? 13 A. No. 14 Q. Apart from any discussions you had 15 with counsel for plaintiffs, do you know why he 16 has been withdrawn as an expert witness? 17 A. I do not.	MS. PARFITT: Number 3 is his CV. CV is separate. BY MR. HEGARTY: Q. So Dr. Harlow I'm sorry, Dr. Rothman Harlow, with regard to your expert report that we're looking at, Exhibit Number 5 A. Oh, right. Yeah. Q is the first part of these pages specifically 1 through 24 your expert report? A. Yes, it is. Q. It also includes as exhibits your curriculum vitae, the curriculum vitae of and the curriculum vitae of Dr. Harlow, as well as a list at the end which is a Materials Considered list, Exhibit C. Do you see that? A. I I believe I do. Oh, actually
1 Q. You were compensated for the work 2 you did on your expert report; is that correct? 3 A. That's correct. 4 Q. You wrote your expert report with 5 Dr. Rothman, correct? 6 A. Yes. 7 Q. Are you aware that plaintiffs' 8 counsel in this case has withdrawn Dr. Rothman as 9 an expert? 10 A. Yes. 11 Q. Did you discuss Dr. Rothman's 12 withdrawal with Dr. Rothman? 13 A. No. 14 Q. Apart from any discussions you had 15 with counsel for plaintiffs, do you know why he 16 has been withdrawn as an expert witness? 17 A. I do not. 18 Q. Do you know that your report is the	MS. PARFITT: Number 3 is his CV. CV is separate. BY MR. HEGARTY: Q. So Dr. Harlow I'm sorry, Dr. Rothman Harlow, with regard to your expert report that we're looking at, Exhibit Number 5 A. Oh, right. Yeah. Q is the first part of these pages specifically 1 through 24 your expert report? A. Yes, it is. Q. It also includes as exhibits your curriculum vitae, the curriculum vitae of and the curriculum vitae of Dr. Harlow, as well as a list at the end which is a Materials Considered by your see that? A. I I believe I do. Oh, actually oh, yeah, Exhibit C, Materials Considered.
1 Q. You were compensated for the work 2 you did on your expert report; is that correct? 3 A. That's correct. 4 Q. You wrote your expert report with 5 Dr. Rothman, correct? 6 A. Yes. 7 Q. Are you aware that plaintiffs' 8 counsel in this case has withdrawn Dr. Rothman as 9 an expert? 10 A. Yes. 11 Q. Did you discuss Dr. Rothman's 12 withdrawal with Dr. Rothman? 13 A. No. 14 Q. Apart from any discussions you had 15 with counsel for plaintiffs, do you know why he 16 has been withdrawn as an expert witness? 17 A. I do not. 18 Q. Do you know that your report is the 19 only coauthored report in this litigation?	MS. PARFITT: Number 3 is his CV. CV is separate. BY MR. HEGARTY: Q. So Dr. Harlow I'm sorry, Dr. Rothman Harlow, with regard to your expert report that we're looking at, Exhibit Number 5 A. Oh, right. Yeah. Q is the first part of these pages specifically 1 through 24 your expert report? A. Yes, it is. Q. It also includes as exhibits your curriculum vitae, the curriculum vitae of and the curriculum vitae of Dr. Harlow, as well as a list at the end which is a Materials Considered list, Exhibit C. Do you see that? A. I I believe I do. Oh, actually
1 Q. You were compensated for the work 2 you did on your expert report; is that correct? 3 A. That's correct. 4 Q. You wrote your expert report with 5 Dr. Rothman, correct? 6 A. Yes. 7 Q. Are you aware that plaintiffs' 8 counsel in this case has withdrawn Dr. Rothman as 9 an expert? 10 A. Yes. 11 Q. Did you discuss Dr. Rothman's 12 withdrawal with Dr. Rothman? 13 A. No. 14 Q. Apart from any discussions you had 15 with counsel for plaintiffs, do you know why he 16 has been withdrawn as an expert witness? 17 A. I do not. 18 Q. Do you know that your report is the	MS. PARFITT: Number 3 is his CV. CV is separate. BY MR. HEGARTY: Q. So Dr. Harlow I'm sorry, Dr. Rothman Harlow, with regard to your expert report that we're looking at, Exhibit Number 5 A. Oh, right. Yeah. Q is the first part of these pages specifically 1 through 24 your expert report? A. Yes, it is. Q. It also includes as exhibits your curriculum vitae, the curriculum vitae of and the curriculum vitae of Dr. Harlow, as well as a list at the end which is a Materials Considered by your see that? A. I I believe I do. Oh, actually oh, yeah, Exhibit C, Materials Considered.
1 Q. You were compensated for the work 2 you did on your expert report; is that correct? 3 A. That's correct. 4 Q. You wrote your expert report with 5 Dr. Rothman, correct? 6 A. Yes. 7 Q. Are you aware that plaintiffs' 8 counsel in this case has withdrawn Dr. Rothman as 9 an expert? 10 A. Yes. 11 Q. Did you discuss Dr. Rothman's 12 withdrawal with Dr. Rothman? 13 A. No. 14 Q. Apart from any discussions you had 15 with counsel for plaintiffs, do you know why he 16 has been withdrawn as an expert witness? 17 A. I do not. 18 Q. Do you know that your report is the 19 only coauthored report in this litigation?	MS. PARFITT: Number 3 is his CV. CV is separate. BY MR. HEGARTY: Q. So Dr. Harlow I'm sorry, Dr. Rothman Harlow, with regard to your expert report that we're looking at, Exhibit Number 5 A. Oh, right. Yeah. Q is the first part of these pages specifically 1 through 24 your expert report? A. Yes, it is. Q. It also includes as exhibits your curriculum vitae, the curriculum vitae of and the curriculum vitae of Dr. Harlow, as well as a list at the end which is a Materials Considered list, Exhibit C. Do you see that? A. I I believe I do. Oh, actually oh, yeah, Exhibit C, Materials Considered.
1 Q. You were compensated for the work 2 you did on your expert report; is that correct? 3 A. That's correct. 4 Q. You wrote your expert report with 5 Dr. Rothman, correct? 6 A. Yes. 7 Q. Are you aware that plaintiffs' 8 counsel in this case has withdrawn Dr. Rothman as 9 an expert? 10 A. Yes. 11 Q. Did you discuss Dr. Rothman's 12 withdrawal with Dr. Rothman? 13 A. No. 14 Q. Apart from any discussions you had 15 with counsel for plaintiffs, do you know why he 16 has been withdrawn as an expert witness? 17 A. I do not. 18 Q. Do you know that your report is the 19 only coauthored report in this litigation? 20 A. I believe I was told that.	MS. PARFITT: Number 3 is his CV. CV is separate. BY MR. HEGARTY: Q. So Dr. Harlow I'm sorry, Dr. Rothman Harlow, with regard to your expert report that we're looking at, Exhibit Number 5 A. Oh, right. Yeah. Q is the first part of these pages specifically 1 through 24 your expert report? A. Yes, it is. Q. It also includes as exhibits your curriculum vitae, the curriculum vitae of and the curriculum vitae of Dr. Harlow, as well as a list at the end which is a Materials Considered list, Exhibit C. Do you see that? A. I I believe I do. Oh, actually oh, yeah, Exhibit C, Materials Considered. Yes. Uh-huh. Q. How was the work on your report
1 Q. You were compensated for the work 2 you did on your expert report; is that correct? 3 A. That's correct. 4 Q. You wrote your expert report with 5 Dr. Rothman, correct? 6 A. Yes. 7 Q. Are you aware that plaintiffs' 8 counsel in this case has withdrawn Dr. Rothman as 9 an expert? 10 A. Yes. 11 Q. Did you discuss Dr. Rothman's 12 withdrawal with Dr. Rothman? 13 A. No. 14 Q. Apart from any discussions you had 15 with counsel for plaintiffs, do you know why he 16 has been withdrawn as an expert witness? 17 A. I do not. 18 Q. Do you know that your report is the 19 only coauthored report in this litigation? 20 A. I believe I was told that. 21 Q. Why did you prepare a coauthored	MS. PARFITT: Number 3 is his CV. CV is separate. BY MR. HEGARTY: Q. So Dr. Harlow I'm sorry, Dr. Rothman Harlow, with regard to your expert report that we're looking at, Exhibit Number 5 A. Oh, right. Yeah. Q is the first part of these pages specifically 1 through 24 your expert report? A. Yes, it is. Q. It also includes as exhibits your curriculum vitae, the curriculum vitae of and the curriculum vitae of Dr. Harlow, as well as a list at the end which is a Materials Considered list, Exhibit C. Do you see that? A. I I believe I do. Oh, actually oh, yeah, Exhibit C, Materials Considered. Yes. Uh-huh. Q. How was the work on your report divided between you and Dr. Rothman?
1 Q. You were compensated for the work 2 you did on your expert report; is that correct? 3 A. That's correct. 4 Q. You wrote your expert report with 5 Dr. Rothman, correct? 6 A. Yes. 7 Q. Are you aware that plaintiffs' 8 counsel in this case has withdrawn Dr. Rothman as 9 an expert? 10 A. Yes. 11 Q. Did you discuss Dr. Rothman's 12 withdrawal with Dr. Rothman? 13 A. No. 14 Q. Apart from any discussions you had 15 with counsel for plaintiffs, do you know why he 16 has been withdrawn as an expert witness? 17 A. I do not. 18 Q. Do you know that your report is the 19 only coauthored report in this litigation? 20 A. I believe I was told that. 21 Q. Why did you prepare a coauthored 22 report?	MS. PARFITT: Number 3 is his CV. CV is separate. BY MR. HEGARTY: Q. So Dr. Harlow I'm sorry, Dr. Rothman Harlow, with regard to your expert report that we're looking at, Exhibit Number 5 A. Oh, right. Yeah. Q is the first part of these pages specifically 1 through 24 your expert report? A. Yes, it is. Q. It also includes as exhibits your curriculum vitae, the curriculum vitae of and the curriculum vitae of Dr. Harlow, as well as a list at the end which is a Materials Considered list, Exhibit C. Do you see that? A. I I believe I do. Oh, actually oh, yeah, Exhibit C, Materials Considered. Yes. Uh-huh. Q. How was the work on your report divided between you and Dr. Rothman? A. It was collaborative.

	P. 70		D 00
1	Page 78 A. There were some sections we wrote	1	Page 80 A. Well, I got to know him better when
	together. There were some sections that		I came to Boston University. I, obviously, have
1	Dr. Rothman took the lead on. There were some	1	known of him and I believe I had met him once. I
Ι.			
4		1	met him at scientific meetings. And he was a very
5	Q. Which sections did you take the lead on and which sections did Dr. Rothman take the		close friend and colleague of my mentor at the
		1	University of Washington, Dr. Noel Weiss, who I
	lead on? A. Dr. Rothman clarified the	1	coauthored one of my papers with.
8		8	Q. Do you know Dr. Rothman socially as well as professionally?
	methodologic approach that we did, I wrote the initial drafts of the reviews of most of the		•
		10	
1	scientific literature that is documented in there,	11	
1	and then together we wrote the Executive Summary	1	publications?
	and I believe our concluding thoughts.	13	, , , ,
14	But it was an iterative process		can't believe I don't believe I've read all of
	where we were back and forth on modifying each	1	him, but I've read certainly the seminal
1	other's sections that we had initially written.	1	publications that he's written.
17	Q. So did you and Dr. Rothman write	17	· ·
	initial sections separate and then combine them?	18	
19	A. We would write our sections and we	19	•
	would discuss it. And as I indicated on my	20	1 00
	invoices, when we were meeting, we would be	21	•
	modifying our sections based on joint input on the	1	working on this litigation reflected in the
	appropriate wording to be used.	1	invoices we marked as an exhibit and then what you
24	Q. Do the invoices we looked at reflect	24	told me what you have done since that time?
	D 70	1	
	Page 79		Page 81
	the hours that you spent with Dr. Rothman in	1	A. That's correct.
2	the hours that you spent with Dr. Rothman in preparing this report?	2	A. That's correct. Q. Have you done any other work on this
3	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does.		A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices
2 3 4	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you	2 3 4	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today?
2 3 4 5	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report?	2 3 4 5	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No.
2 3 4 5 6	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report? A. Yes.	2 3 4 5 6	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No. Q. Looking at your report over on page
2 3 4 5 6 7	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report? A. Yes. Q. Does it also reflect all the hours	2 3 4 5 6 7	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No. Q. Looking at your report over on page 20, you state at the bottom that:
2 3 4 5 6 7 8	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report? A. Yes. Q. Does it also reflect all the hours you spent working on your report?	2 3 4 5 6 7 8	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No. Q. Looking at your report over on page 20, you state at the bottom that: "It is our opinion that talcum
2 3 4 5 6 7 8 9	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report? A. Yes. Q. Does it also reflect all the hours you spent working on your report? A. I believe it does.	2 3 4 5 6 7 8 9	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No. Q. Looking at your report over on page 20, you state at the bottom that: "It is our opinion that talcum powder products, including Johnson's Baby Powder
2 3 4 5 6 7 8 9 10	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report? A. Yes. Q. Does it also reflect all the hours you spent working on your report? A. I believe it does. Q. In the process of preparing your	2 3 4 5 6 7 8 9	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No. Q. Looking at your report over on page 20, you state at the bottom that: "It is our opinion that talcum powder products, including Johnson's Baby Powder and Shower to Shower, applied to the genital area
2 3 4 5 6 7 8 9 10	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report? A. Yes. Q. Does it also reflect all the hours you spent working on your report? A. I believe it does. Q. In the process of preparing your report, did you communicate with Dr. Rothman by	2 3 4 5 6 7 8 9 10 11	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No. Q. Looking at your report over on page 20, you state at the bottom that: "It is our opinion that talcum powder products, including Johnson's Baby Powder and Shower to Shower, applied to the genital area of women, can cause ovarian cancer."
2 3 4 5 6 7 8 9 10 11 12	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report? A. Yes. Q. Does it also reflect all the hours you spent working on your report? A. I believe it does. Q. In the process of preparing your report, did you communicate with Dr. Rothman by e-mail?	2 3 4 5 6 7 8 9 10 11 12	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No. Q. Looking at your report over on page 20, you state at the bottom that: "It is our opinion that talcum powder products, including Johnson's Baby Powder and Shower to Shower, applied to the genital area of women, can cause ovarian cancer." Do you see where I'm reading?
2 3 4 5 6 7 8 9 10 11 12 13	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report? A. Yes. Q. Does it also reflect all the hours you spent working on your report? A. I believe it does. Q. In the process of preparing your report, did you communicate with Dr. Rothman by e-mail? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No. Q. Looking at your report over on page 20, you state at the bottom that: "It is our opinion that talcum powder products, including Johnson's Baby Powder and Shower to Shower, applied to the genital area of women, can cause ovarian cancer." Do you see where I'm reading? A. Yes, I do.
2 3 4 5 6 7 8 9 10 11 12 13 14	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report? A. Yes. Q. Does it also reflect all the hours you spent working on your report? A. I believe it does. Q. In the process of preparing your report, did you communicate with Dr. Rothman by e-mail? A. Yes. Q. Do you still have those e-mails?	2 3 4 5 6 7 8 9 10 11 12 13 14	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No. Q. Looking at your report over on page 20, you state at the bottom that: "It is our opinion that talcum powder products, including Johnson's Baby Powder and Shower to Shower, applied to the genital area of women, can cause ovarian cancer." Do you see where I'm reading? A. Yes, I do. Q. Does your opinion apply to corn
2 3 4 5 6 7 8 9 10 11 12 13 14 15	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report? A. Yes. Q. Does it also reflect all the hours you spent working on your report? A. I believe it does. Q. In the process of preparing your report, did you communicate with Dr. Rothman by e-mail? A. Yes. Q. Do you still have those e-mails? A. No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No. Q. Looking at your report over on page 20, you state at the bottom that: "It is our opinion that talcum powder products, including Johnson's Baby Powder and Shower to Shower, applied to the genital area of women, can cause ovarian cancer." Do you see where I'm reading? A. Yes, I do. Q. Does your opinion apply to corn starch products?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report? A. Yes. Q. Does it also reflect all the hours you spent working on your report? A. I believe it does. Q. In the process of preparing your report, did you communicate with Dr. Rothman by e-mail? A. Yes. Q. Do you still have those e-mails? A. No. Q. With regard to the final report, did	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No. Q. Looking at your report over on page 20, you state at the bottom that: "It is our opinion that talcum powder products, including Johnson's Baby Powder and Shower to Shower, applied to the genital area of women, can cause ovarian cancer." Do you see where I'm reading? A. Yes, I do. Q. Does your opinion apply to corn starch products? A. No, it does not.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report? A. Yes. Q. Does it also reflect all the hours you spent working on your report? A. I believe it does. Q. In the process of preparing your report, did you communicate with Dr. Rothman by e-mail? A. Yes. Q. Do you still have those e-mails? A. No. Q. With regard to the final report, did you read and approve each statement in the report?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No. Q. Looking at your report over on page 20, you state at the bottom that: "It is our opinion that talcum powder products, including Johnson's Baby Powder and Shower to Shower, applied to the genital area of women, can cause ovarian cancer." Do you see where I'm reading? A. Yes, I do. Q. Does your opinion apply to corn starch products? A. No, it does not. Q. Does your opinion apply to body
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report? A. Yes. Q. Does it also reflect all the hours you spent working on your report? A. I believe it does. Q. In the process of preparing your report, did you communicate with Dr. Rothman by e-mail? A. Yes. Q. Do you still have those e-mails? A. No. Q. With regard to the final report, did you read and approve each statement in the report? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No. Q. Looking at your report over on page 20, you state at the bottom that: "It is our opinion that talcum powder products, including Johnson's Baby Powder and Shower to Shower, applied to the genital area of women, can cause ovarian cancer." Do you see where I'm reading? A. Yes, I do. Q. Does your opinion apply to corn starch products? A. No, it does not. Q. Does your opinion apply to body powders generally?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report? A. Yes. Q. Does it also reflect all the hours you spent working on your report? A. I believe it does. Q. In the process of preparing your report, did you communicate with Dr. Rothman by e-mail? A. Yes. Q. Do you still have those e-mails? A. No. Q. With regard to the final report, did you read and approve each statement in the report? A. Yes. Q. Was there any disagreement on	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No. Q. Looking at your report over on page 20, you state at the bottom that: "It is our opinion that talcum powder products, including Johnson's Baby Powder and Shower to Shower, applied to the genital area of women, can cause ovarian cancer." Do you see where I'm reading? A. Yes, I do. Q. Does your opinion apply to corn starch products? A. No, it does not. Q. Does your opinion apply to body powders generally? A. Only to the extent that they include
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report? A. Yes. Q. Does it also reflect all the hours you spent working on your report? A. I believe it does. Q. In the process of preparing your report, did you communicate with Dr. Rothman by e-mail? A. Yes. Q. Do you still have those e-mails? A. No. Q. With regard to the final report, did you read and approve each statement in the report? A. Yes. Q. Was there any disagreement on statements as you were preparing the report?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No. Q. Looking at your report over on page 20, you state at the bottom that: "It is our opinion that talcum powder products, including Johnson's Baby Powder and Shower to Shower, applied to the genital area of women, can cause ovarian cancer." Do you see where I'm reading? A. Yes, I do. Q. Does your opinion apply to corn starch products? A. No, it does not. Q. Does your opinion apply to body powders generally? A. Only to the extent that they include talc.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report? A. Yes. Q. Does it also reflect all the hours you spent working on your report? A. I believe it does. Q. In the process of preparing your report, did you communicate with Dr. Rothman by e-mail? A. Yes. Q. Do you still have those e-mails? A. No. Q. With regard to the final report, did you read and approve each statement in the report? A. Yes. Q. Was there any disagreement on statements as you were preparing the report? A. I wouldn't say we had disagreements.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No. Q. Looking at your report over on page 20, you state at the bottom that: "It is our opinion that talcum powder products, including Johnson's Baby Powder and Shower to Shower, applied to the genital area of women, can cause ovarian cancer." Do you see where I'm reading? A. Yes, I do. Q. Does your opinion apply to corn starch products? A. No, it does not. Q. Does your opinion apply to body powders generally? A. Only to the extent that they include talc. Q. With regard to the opinion statement
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report? A. Yes. Q. Does it also reflect all the hours you spent working on your report? A. I believe it does. Q. In the process of preparing your report, did you communicate with Dr. Rothman by e-mail? A. Yes. Q. Do you still have those e-mails? A. No. Q. With regard to the final report, did you read and approve each statement in the report? A. Yes. Q. Was there any disagreement on statements as you were preparing the report? A. I wouldn't say we had disagreements. I think we we came to consensus on the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No. Q. Looking at your report over on page 20, you state at the bottom that: "It is our opinion that talcum powder products, including Johnson's Baby Powder and Shower to Shower, applied to the genital area of women, can cause ovarian cancer." Do you see where I'm reading? A. Yes, I do. Q. Does your opinion apply to corn starch products? A. No, it does not. Q. Does your opinion apply to body powders generally? A. Only to the extent that they include talc. Q. With regard to the opinion statement that I just read at the bottom of page 20
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the hours that you spent with Dr. Rothman in preparing this report? A. I believe it does. Q. Does it show all the hours that you spent with Dr. Rothman in writing your report? A. Yes. Q. Does it also reflect all the hours you spent working on your report? A. I believe it does. Q. In the process of preparing your report, did you communicate with Dr. Rothman by e-mail? A. Yes. Q. Do you still have those e-mails? A. No. Q. With regard to the final report, did you read and approve each statement in the report? A. Yes. Q. Was there any disagreement on statements as you were preparing the report? A. I wouldn't say we had disagreements.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. That's correct. Q. Have you done any other work on this litigation that's not reflected in your invoices or what you told me about so far today? A. No. Q. Looking at your report over on page 20, you state at the bottom that: "It is our opinion that talcum powder products, including Johnson's Baby Powder and Shower to Shower, applied to the genital area of women, can cause ovarian cancer." Do you see where I'm reading? A. Yes, I do. Q. Does your opinion apply to corn starch products? A. No, it does not. Q. Does your opinion apply to body powders generally? A. Only to the extent that they include talc. Q. With regard to the opinion statement that I just read at the bottom of page 20 A. Uh-huh.

Page 82 Page 84 1 statement in any published peer-reviewed 1 A. I'm sorry. Under the what section? 2 publication, correct? 2 Q. The abstract section. 3 I have not. Not -- not the word 3 A. A. Oh, the abstract. Yes, yes, yes. 4 "cause." 4 Q. The end of the first paragraph below 5 O. You have never made the statement 5 that. 6 that I just read to you in anything you have 6 A. Yes. 7 written before November 2023, correct? 7 O. You note in this article that: 8 A. In any public statement, no. 8 "Despite this consistency, the 9 Q. Have you made this statement in 9 association is still viewed with skepticism based 10 anything other than this report since November 10 upon weak odds ratios, poor dose-response 11 2023? 11 relationships and an incomplete understanding of 12 A. No. 12 the biological mechanism by which talc might lead On page 2 of your report --13 Q. 13 to ovarian cancer." 14 A. Uh-huh. 14 Do you see where I'm reading? 15 Q. -- you identify your publications on 15 A. No, I'm not sure I do. 16 talc use and ovarian cancer, correct? 16 Q. (Indicates). 17 A. 17 A. Oh, oh, oh. It's not in the 18 Q. There are four published articles 18 abstract. 19 and one letter to the editor? 19 MR. TISI: It's not in the 20 A. Correct. 20 abstract. You said the abstract. 21 0. Your last published peer-reviewed 21 BY MR. HEGARTY: 22 article was in 1999, 25 years ago, right? 22 0. I said the paragraph below the 23 Yes, but I don't know to what extent 23 abstract. 24 the editors at JAMA peer review letters to the 24 A. Oh, I'm sorry. I'm sorry. Page 85 1 editor. 1 Okay. 2 2 Q. Q. Fair. Do you see where I read in the --3 3 You don't know one way or the other? A. Could you please reread it so I can 4 A. I don't know one way or the other. 4 see what it is? 5 You do not state in any of your 0. 5 Q. The sentence is. 6 published articles that talc use can cause ovarian 6 "Despite this consistency, the 7 cancer, correct? 7 association is still viewed with skepticism --8 I don't recall that I use that 8 A. Yes. A. 9 particular term, but I would have to look and see. 9 O. -- based upon weak odds ratios, poor 10 dose-response relationships and an incomplete 10 With regard to your 1999 11 publication, I'm going to show that to you. 11 understanding of biological mechanism by which 12 12 talc might lead to ovarian cancer." A. Yes. MR. HEGARTY: I have marked it 13 13 Those were true statements in 1999 14 as Exhibit Number 6. 14 when you published this article, correct? 15 THE WITNESS: Yes. 15 Yes. Yes, there was definitely --16 16 there was skepticism. (Document marked for 17 identification as Harlow Exhibit 6.) 17 Please turn over to page 354 of this 18 BY MR. HEGARTY: 18 article, bottom left-hand paragraph. 19 19 Yes. Q. Is Exhibit Number 6 your 1999 A. 20 publication? 20 O. You wrote: 21 "Despite the consistency noted A. That's correct. 21 22 above, the relatively weak odds ratios observed If you can look at the first 23 paragraph under the abstract section on page 1, 23 could reflect potential biases, especially recall 24 you wrote --24 and confounding. Recall bias is possible because

	Page 86		Page 88
1	talc exposure in these studies is based on	1	dose response.
	personal recollection."		BY MR. HEGARTY:
3	That's a true statement, correct?	3	Q. What I read to you was a true
4	A. Except that if you look at the		statement as of the time you published this
	sentence following that, it seems that recall bias		article, correct?
1	seems more likely to affect exposures that have	6	A. Yes.
1	occurred over a short period of time.	7	Q. IARC published its monograph
8	Q. As far as the sentence I just read	8	regarding talc use
9	to you, though, you stand by that sentence,	9	MR. TISI: Are you done with
	correct?	10	this?
11	A. I stand by recall bias is a possible	11	MR. HEGARTY: I'm done with it
12	could have a possible effect in those who have	12	for now.
13	used it sporadically over their lifetime.	13	MR. TISI: Okay.
14	Q. But in terms of all the statements	14	BY MR. HEGARTY:
15	in this article, you still stand by them, correct?	15	Q. IARC published its monograph
16	A. Yes, I believe so. I mean, yes, I	16	regarding talc use and ovarian cancer in 2010
17	stand by everything I've written.	17	where it designated talc as to be possibly
18	Q. Please turn over to page 355.	18	carcinogenic.
19	A. Uh-huh.	19	Did you read that monograph when it
20	Q. Left-hand side, end of the paragraph		came out?
	end of the left-hand side.	21	A. I can't say that I read it when it
22	MR. TISI: Let me get there,		came out.
23	Mark.	23	Q. Do you recall when it was when you
24	BY MR. HEGARTY:	24	did read that IARC Monograph, if you did?
	Page 87		Page 89
1	Q. That paragraph reads:	1	A. I looked at that monograph and other
2	"The most obvious weakness in the		IARC statements during the process of reviewing
	argument for biologic credibility of the talc and		the evidence.
	ovarian cancer association is the lack of a clear	4	Q. "During the process of reviewing the evidence."
	dose response. Most talc and ovarian cancer studies that have addressed dose response,	6	Are you talking about during the
	including this one, have failed to demonstrate		process of reviewing the evidence in connection
	consistent dose response relationships with		
		Q	-
			with preparing your expert report?
9	measures of the intensity of the exposure,	9	with preparing your expert report? A. Yes.
9 10	measures of the intensity of the exposure, especially when the trend is examined among users	9 10	with preparing your expert report? A. Yes. Q. Prior to you starting to work on
9 10 11	measures of the intensity of the exposure, especially when the trend is examined among users only."	9 10 11	with preparing your expert report? A. Yes. Q. Prior to you starting to work on your expert report, had you ever reviewed the 2010
9 10 11 12	measures of the intensity of the exposure, especially when the trend is examined among users only." Do you stand by that statement?	9 10 11	with preparing your expert report? A. Yes. Q. Prior to you starting to work on your expert report, had you ever reviewed the 2010 IARC Monograph on talc?
9 10 11	measures of the intensity of the exposure, especially when the trend is examined among users only."	9 10 11 12	with preparing your expert report? A. Yes. Q. Prior to you starting to work on your expert report, had you ever reviewed the 2010 IARC Monograph on talc?
9 10 11 12 13	measures of the intensity of the exposure, especially when the trend is examined among users only." Do you stand by that statement? MR. TISI: Objection.	9 10 11 12 13 14	with preparing your expert report? A. Yes. Q. Prior to you starting to work on your expert report, had you ever reviewed the 2010 IARC Monograph on talc? A. I don't believe I did.
9 10 11 12 13 14	measures of the intensity of the exposure, especially when the trend is examined among users only." Do you stand by that statement? MR. TISI: Objection. Incomplete based upon the entirety of the	9 10 11 12 13 14 15	with preparing your expert report? A. Yes. Q. Prior to you starting to work on your expert report, had you ever reviewed the 2010 IARC Monograph on talc? A. I don't believe I did. Q. Did you come to the opinion in your
9 10 11 12 13 14 15	measures of the intensity of the exposure, especially when the trend is examined among users only." Do you stand by that statement? MR. TISI: Objection. Incomplete based upon the entirety of the article.	9 10 11 12 13 14 15 16	with preparing your expert report? A. Yes. Q. Prior to you starting to work on your expert report, had you ever reviewed the 2010 IARC Monograph on talc? A. I don't believe I did. Q. Did you come to the opinion in your report that talc applied to the genital area can
9 10 11 12 13 14 15 16	measures of the intensity of the exposure, especially when the trend is examined among users only." Do you stand by that statement? MR. TISI: Objection. Incomplete based upon the entirety of the article. Go ahead.	9 10 11 12 13 14 15 16	with preparing your expert report? A. Yes. Q. Prior to you starting to work on your expert report, had you ever reviewed the 2010 IARC Monograph on talc? A. I don't believe I did. Q. Did you come to the opinion in your report that talc applied to the genital area can cause ovarian cancer before being contacted by
9 10 11 12 13 14 15 16 17	measures of the intensity of the exposure, especially when the trend is examined among users only." Do you stand by that statement? MR. TISI: Objection. Incomplete based upon the entirety of the article. Go ahead. THE WITNESS: Yeah. Again, I	9 10 11 12 13 14 15 16 17 18	with preparing your expert report? A. Yes. Q. Prior to you starting to work on your expert report, had you ever reviewed the 2010 IARC Monograph on talc? A. I don't believe I did. Q. Did you come to the opinion in your report that talc applied to the genital area can cause ovarian cancer before being contacted by plaintiffs' counsel back in 2023?
9 10 11 12 13 14 15 16 17 18	measures of the intensity of the exposure, especially when the trend is examined among users only." Do you stand by that statement? MR. TISI: Objection. Incomplete based upon the entirety of the article. Go ahead. THE WITNESS: Yeah. Again, I am I am this paragraph reflects the	9 10 11 12 13 14 15 16 17 18 19 20	with preparing your expert report? A. Yes. Q. Prior to you starting to work on your expert report, had you ever reviewed the 2010 IARC Monograph on talc? A. I don't believe I did. Q. Did you come to the opinion in your report that talc applied to the genital area can cause ovarian cancer before being contacted by plaintiffs' counsel back in 2023? A. I have always in my written publications believed that the association with respect to genital application of talc and its
9 10 11 12 13 14 15 16 17 18 19 20 21	measures of the intensity of the exposure, especially when the trend is examined among users only." Do you stand by that statement? MR. TISI: Objection. Incomplete based upon the entirety of the article. Go ahead. THE WITNESS: Yeah. Again, I am I am this paragraph reflects the fact that very few articles have had the capacity to be able to accurately and appropriately have the data to be able to	9 10 11 12 13 14 15 16 17 18 19 20 21	with preparing your expert report? A. Yes. Q. Prior to you starting to work on your expert report, had you ever reviewed the 2010 IARC Monograph on talc? A. I don't believe I did. Q. Did you come to the opinion in your report that talc applied to the genital area can cause ovarian cancer before being contacted by plaintiffs' counsel back in 2023? A. I have always in my written publications believed that the association with respect to genital application of talc and its risk of ovarian cancer was a true association.
9 10 11 12 13 14 15 16 17 18 19 20 21 22	measures of the intensity of the exposure, especially when the trend is examined among users only." Do you stand by that statement? MR. TISI: Objection. Incomplete based upon the entirety of the article. Go ahead. THE WITNESS: Yeah. Again, I am I am this paragraph reflects the fact that very few articles have had the capacity to be able to accurately and appropriately have the data to be able to show the dose response.	9 10 11 12 13 14 15 16 17 18 19 20 21 22	with preparing your expert report? A. Yes. Q. Prior to you starting to work on your expert report, had you ever reviewed the 2010 IARC Monograph on talc? A. I don't believe I did. Q. Did you come to the opinion in your report that talc applied to the genital area can cause ovarian cancer before being contacted by plaintiffs' counsel back in 2023? A. I have always in my written publications believed that the association with respect to genital application of talc and its risk of ovarian cancer was a true association. Q. My question, though, is a little bit
9 10 11 12 13 14 15 16 17 18 19 20 21	measures of the intensity of the exposure, especially when the trend is examined among users only." Do you stand by that statement? MR. TISI: Objection. Incomplete based upon the entirety of the article. Go ahead. THE WITNESS: Yeah. Again, I am I am this paragraph reflects the fact that very few articles have had the capacity to be able to accurately and appropriately have the data to be able to	9 10 11 12 13 14 15 16 17 18 19 20 21 22	with preparing your expert report? A. Yes. Q. Prior to you starting to work on your expert report, had you ever reviewed the 2010 IARC Monograph on talc? A. I don't believe I did. Q. Did you come to the opinion in your report that talc applied to the genital area can cause ovarian cancer before being contacted by plaintiffs' counsel back in 2023? A. I have always in my written publications believed that the association with respect to genital application of talc and its risk of ovarian cancer was a true association.

1	Page 90	1	Page 92
	opinion that you've said in your report that talc	1	A. I believed in the research that I had done and the associations that I observed as
	applied to the genital area can cause ovarian		
	cancer, did you come to that opinion prior to		being as not being explained by biases to my -
4	being contacted by plaintiffs' counsel about		based on my evaluation.
3	serving as an expert witness in this litigation?	5	I certainly yeah.
$\begin{vmatrix} 6 \\ 7 \end{vmatrix}$	A. I believe in my in my 1992	6	Q. Go ahead.
/	article, I basically indicated that I believed	7	Have you reviewed the transcript of
8	that about 10 percent of the incidence of ovarian	8	the proceedings?
10	cancer could be or was attributable to talc	9	A. I have. I have.
	exposure.	10	Q. When did you review the transcript
11	Q. My question still is a little		of the proceedings?
	different than what you're answering.	12	A. Recently, actually.
13	You just you told me about what	13	MR. HEGARTY: I'm going to
	you believed as to the association being a true	14	mark as the next exhibit, Exhibit
1	association. You told me what you wrote in you		Number 7, the transcript of the FDA
	1992 article about 10 percent of cases	16	workshop proceeding.
	involving	17	(Document marked for
18	A. 10 percent of the incidence.	18	identification as Harlow Exhibit 7.)
19	Q. 10 percent of the incidence.	19	THE WITNESS: Yep.
20	J 1 J		BY MR. HEGARTY:
1	the causal statement you made in your expert	21	Q. Is the transcript that I marked as
1	report.		Exhibit Number 7 what you reviewed recently?
23	When did you come to that causal	23	A. Yes.
24	opinion?	24	Q. Please turn over to page 272. They
			(
	Page 91		
1	Page 91 A. I came to that causal opinion in	1	
1 2	A. I came to that causal opinion in doing this report.	2	Page 93 are numbered at the top. A. Yep.
1 -	A. I came to that causal opinion in doing this report.Q. Now, as you mentioned a short time	2 3	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If
3 4	 A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc that 	2 3 t 4	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay?
3 4	 A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc that was cosponsored by FDA, correct? 	2 3	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine.
3 4	 A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc tha was cosponsored by FDA, correct? A. Yes. 	2 3 t 4	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine. A. Okay.
2 3 4 5	 A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc that was cosponsored by FDA, correct? 	2 3 t 4 5	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine.
2 3 4 5 6 7	 A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc tha was cosponsored by FDA, correct? A. Yes. 	2 3 t 4 5 6 7	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine. A. Okay.
2 3 4 5 6 7	 A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc that was cosponsored by FDA, correct? A. Yes. Q. In fact, you spoke at that 	2 3 t 4 5 6 7 8 9	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine. A. Okay. Q. In the last paragraph on 272, you stated at that conference: "In summary, these results suggest
2 3 4 5 6 7 8 9	A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc tha was cosponsored by FDA, correct? A. Yes. Q. In fact, you spoke at that conference? A. Yes. Q. Do you still have the slides or	2 3 t 4 5 6 7 8 9	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine. A. Okay. Q. In the last paragraph on 272, you stated at that conference:
2 3 4 5 6 7 8 9	A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc tha was cosponsored by FDA, correct? A. Yes. Q. In fact, you spoke at that conference? A. Yes.	2 3 t 4 5 6 7 8 9	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine. A. Okay. Q. In the last paragraph on 272, you stated at that conference: "In summary, these results suggest
2 3 4 5 6 7 8 9 10 11 12	A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc tha was cosponsored by FDA, correct? A. Yes. Q. In fact, you spoke at that conference? A. Yes. Q. Do you still have the slides or materials you used at that conference? A. No. I'm not sure they even had	2 3 t 4 5 6 7 8 9 10 11 12	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine. A. Okay. Q. In the last paragraph on 272, you stated at that conference: "In summary, these results suggest that if an association of talc exposure and ovarian cancer truly exists, it is probably weak and does not explain a large proportion of the
2 3 4 5 6 7 8 9 10 11 12	A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc that was cosponsored by FDA, correct? A. Yes. Q. In fact, you spoke at that conference? A. Yes. Q. Do you still have the slides or materials you used at that conference?	2 3 t 4 5 6 7 8 9 10 11 12	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine. A. Okay. Q. In the last paragraph on 272, you stated at that conference: "In summary, these results suggest that if an association of talc exposure and ovarian cancer truly exists, it is probably weak
2 3 4 5 6 7 8 9 10 11 12 13	A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc tha was cosponsored by FDA, correct? A. Yes. Q. In fact, you spoke at that conference? A. Yes. Q. Do you still have the slides or materials you used at that conference? A. No. I'm not sure they even had	2 3 t 4 5 6 7 8 9 10 11 12	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine. A. Okay. Q. In the last paragraph on 272, you stated at that conference: "In summary, these results suggest that if an association of talc exposure and ovarian cancer truly exists, it is probably weak and does not explain a large proportion of the
2 3 4 5 6 7 8 9 10 11 12 13	A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc tha was cosponsored by FDA, correct? A. Yes. Q. In fact, you spoke at that conference? A. Yes. Q. Do you still have the slides or materials you used at that conference? A. No. I'm not sure they even had slides. It may have been transparencies. I don't	2 3 t 4 5 6 7 8 9 10 11 12 13	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine. A. Okay. Q. In the last paragraph on 272, you stated at that conference: "In summary, these results suggest that if an association of talc exposure and ovarian cancer truly exists, it is probably weak and does not explain a large proportion of the overall incidence of ovarian cancer."
2 3 4 4 5 6 7 8 9 10 11 12 13 14 15	A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc that was cosponsored by FDA, correct? A. Yes. Q. In fact, you spoke at that conference? A. Yes. Q. Do you still have the slides or materials you used at that conference? A. No. I'm not sure they even had slides. It may have been transparencies. I don't remember.	2 3 t 4 5 6 7 8 9 10 11 12 13	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine. A. Okay. Q. In the last paragraph on 272, you stated at that conference: "In summary, these results suggest that if an association of talc exposure and ovarian cancer truly exists, it is probably weak and does not explain a large proportion of the overall incidence of ovarian cancer." That's what you said at that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc tha was cosponsored by FDA, correct? A. Yes. Q. In fact, you spoke at that conference? A. Yes. Q. Do you still have the slides or materials you used at that conference? A. No. I'm not sure they even had slides. It may have been transparencies. I don't remember. Q. You did not tell the audience that	2 3 t 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine. A. Okay. Q. In the last paragraph on 272, you stated at that conference: "In summary, these results suggest that if an association of talc exposure and ovarian cancer truly exists, it is probably weak and does not explain a large proportion of the overall incidence of ovarian cancer." That's what you said at that conference?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc tha was cosponsored by FDA, correct? A. Yes. Q. In fact, you spoke at that conference? A. Yes. Q. Do you still have the slides or materials you used at that conference? A. No. I'm not sure they even had slides. It may have been transparencies. I don't remember. Q. You did not tell the audience that talc use in the genital area can cause ovarian cancer, correct?	2 3 t 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine. A. Okay. Q. In the last paragraph on 272, you stated at that conference: "In summary, these results suggest that if an association of talc exposure and ovarian cancer truly exists, it is probably weak and does not explain a large proportion of the overall incidence of ovarian cancer." That's what you said at that conference? A. That's right, and that's what I just said to you as well. Q. That's what you believed at the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc tha was cosponsored by FDA, correct? A. Yes. Q. In fact, you spoke at that conference? A. Yes. Q. Do you still have the slides or materials you used at that conference? A. No. I'm not sure they even had slides. It may have been transparencies. I don't remember. Q. You did not tell the audience that talc use in the genital area can cause ovarian cancer, correct? A. I did not use that term.	2 3 t 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine. A. Okay. Q. In the last paragraph on 272, you stated at that conference: "In summary, these results suggest that if an association of talc exposure and ovarian cancer truly exists, it is probably weak and does not explain a large proportion of the overall incidence of ovarian cancer." That's what you said at that conference? A. That's right, and that's what I just said to you as well.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc tha was cosponsored by FDA, correct? A. Yes. Q. In fact, you spoke at that conference? A. Yes. Q. Do you still have the slides or materials you used at that conference? A. No. I'm not sure they even had slides. It may have been transparencies. I don't remember. Q. You did not tell the audience that talc use in the genital area can cause ovarian cancer, correct? A. I did not use that term.	2 3 t 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine. A. Okay. Q. In the last paragraph on 272, you stated at that conference: "In summary, these results suggest that if an association of talc exposure and ovarian cancer truly exists, it is probably weak and does not explain a large proportion of the overall incidence of ovarian cancer." That's what you said at that conference? A. That's right, and that's what I just said to you as well. Q. That's what you believed at the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc tha was cosponsored by FDA, correct? A. Yes. Q. In fact, you spoke at that conference? A. Yes. Q. Do you still have the slides or materials you used at that conference? A. No. I'm not sure they even had slides. It may have been transparencies. I don't remember. Q. You did not tell the audience that talc use in the genital area can cause ovarian cancer, correct? A. I did not use that term. Q. And you did not believe that at the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine. A. Okay. Q. In the last paragraph on 272, you stated at that conference: "In summary, these results suggest that if an association of talc exposure and ovarian cancer truly exists, it is probably weak and does not explain a large proportion of the overall incidence of ovarian cancer." That's what you said at that conference? A. That's right, and that's what I just said to you as well. Q. That's what you believed at the time?
2 3 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc tha was cosponsored by FDA, correct? A. Yes. Q. In fact, you spoke at that conference? A. Yes. Q. Do you still have the slides or materials you used at that conference? A. No. I'm not sure they even had slides. It may have been transparencies. I don't remember. Q. You did not tell the audience that talc use in the genital area can cause ovarian cancer, correct? A. I did not use that term. Q. And you did not believe that at the time, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine. A. Okay. Q. In the last paragraph on 272, you stated at that conference: "In summary, these results suggest that if an association of talc exposure and ovarian cancer truly exists, it is probably weak and does not explain a large proportion of the overall incidence of ovarian cancer." That's what you said at that conference? A. That's right, and that's what I just said to you as well. Q. That's what you believed at the time? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc tha was cosponsored by FDA, correct? A. Yes. Q. In fact, you spoke at that conference? A. Yes. Q. Do you still have the slides or materials you used at that conference? A. No. I'm not sure they even had slides. It may have been transparencies. I don't remember. Q. You did not tell the audience that talc use in the genital area can cause ovarian cancer, correct? A. I did not use that term. Q. And you did not believe that at the time, correct? A. I did not use that term.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine. A. Okay. Q. In the last paragraph on 272, you stated at that conference: "In summary, these results suggest that if an association of talc exposure and ovarian cancer truly exists, it is probably weak and does not explain a large proportion of the overall incidence of ovarian cancer." That's what you said at that conference? A. That's right, and that's what I just said to you as well. Q. That's what you believed at the time? A. Yes. Q. That was a true statement, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. I came to that causal opinion in doing this report. Q. Now, as you mentioned a short time ago, you attended the 1994 workshop on talc tha was cosponsored by FDA, correct? A. Yes. Q. In fact, you spoke at that conference? A. Yes. Q. Do you still have the slides or materials you used at that conference? A. No. I'm not sure they even had slides. It may have been transparencies. I don't remember. Q. You did not tell the audience that talc use in the genital area can cause ovarian cancer, correct? A. I did not use that term. Q. And you did not believe that at the time, correct? A. I did not use that term. Q. Well, did you believe at the time	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 23	Page 93 are numbered at the top. A. Yep. I'm going to take the clip off. If that's okay? Q. That is fine. A. Okay. Q. In the last paragraph on 272, you stated at that conference: "In summary, these results suggest that if an association of talc exposure and ovarian cancer truly exists, it is probably weak and does not explain a large proportion of the overall incidence of ovarian cancer." That's what you said at that conference? A. That's right, and that's what I just said to you as well. Q. That's what you believed at the time? A. Yes. Q. That was a true statement, correct? A. Yes.

Page 94	Page 96
1 The next document I'm going to	1 That was a statement made at the
2 show you, which I'm marking as Exhibit	2 conference.
3 Number 8, is the publication by Carr that	3 Are you aware of that?
4 came out of that FDA workshop.	4 A. I'm not aware of that.
5 (Document marked for	5 Q. Turn over to page 215, the next
6 identification as Harlow Exhibit 8.)	6 page.
7 BY MR. HEGARTY:	7 A. Uh-huh.
8 Q. Have you seen the publication I	8 Q. Look at the very bottom of the
9 marked as Exhibit Number 8 before today?	9 left-hand column carrying over to the right-hand
10 A. Oh, yes.	10 column.
11 Q. And did you review that recently?	11 A. Uh-huh.
12 A. Yes.	12 Q. The sentence at the very bottom
13 Q. It shows on page 2 that you were a	13 reads:
14 participant?	14 "Following the many issues raised by
15 A. That's correct.	15 all presenters, the ensuing discussion generally
Q. Please turn to page 214 of the Carr	16 agreed that while some weak association betwee
17 paper.	17 talc exposure and ovarian tumors has been
First of all, before we go there.	18 reported, it was not sufficient warning for
Did you review the Carr paper when	19 concern."
20 it came out back in 1995?	First of all, did I read it
21 A. I did not I don't recall. I did	21 correctly?
22 not I was not involved in the preparation or	A. You did read it correctly.
23 review of this. I might have seen it before it	Q. Do you dispute that statement?
24 came in print. I just I don't recall.	24 A. Yes, I do.
Page 95	Page 97
1 Q. Had you read it in some context	1 Q. Back when you reviewed Carr, did you
2 prior to being contacted by plaintiffs' counsel in	2 write a letter to the editor or contact the
3 this litigation? 4 A. Oh, prior to this litigation?	3 authors let me start over again.
	4 Back when you reviewed the Carr 5 study back in the 1990s, did you contact Carr or
	6 any of those involved in this publication and
6 A. I'm sure I did back in the '90s, but 7 not since then.	7 express concern about any of the language used in
8 Q. And in looking at page 214	8 the article?
9 A. Yes.	9 A. No.
10 Q in the lower right-hand corner,	MR. TISI: Objection. Wait.
11 if you look sort of in the middle of that very	11 Let me place an objection to the
12 last paragraph, the sentence beginning "To	12 characterization of this article as a
13 reasonable people."	13 study. It's not a study.
Do you see that sentence?	14 You may answer.
15 A. In which paragraph?	15 THE WITNESS: No. Instead, I
16 Q. (Indicates).	16 wrote an entire review article that was
17 A. Oh, right around there.	published in that issue, which summarized
18 Yes, I see it. Uh-huh.	what we had presented at the conference.
19 Q. That article reads:	19 BY MR. HEGARTY:
20 "To reasonable people even armed	20 Q. Have you ever in any published
21 with reasonable concern for prudence these	21 any publication of yours specifically addressed
22 clues suggest that the probability of human risk	22 any of the statements in the Carr article?
23 is likely nonexistent under customary conditions	
24 of use."	24 Q. Have you publicly in any forum,

	5		B 400
1	Page 98 whether published or otherwise, taken issue with	1	Q. Does he stand by what he wrote back
	any of the statements contained in the Carr		in 2000?
	article, including the statements I read to you?	3	A. He stands by what he signed his name
4	A. No, not in any public no, not	_	to in the report that we wrote together.
5	publicly at all.	5	Q. My question, though, is: Does he
6	MR. HEGARTY: You can put that		stand by, from what he has told you, what I marked
7	document aside for the moment.	7	as Exhibit Number 9?
8	The next document I want to	8	MS. PARFITT: Objection.
9	talk to you about, which I'll mark as	9	THE WITNESS: I have no idea
10	Exhibit Number 9, is Dr. Rothman et al.'s	10	whether he does or not.
11	document "Interpretation of Epidemiologic		BY MR. HEGARTY:
12	Studies on Talc and Ovarian Cancer."	12	Q. Turning to page 2, in the
13	(Document marked for		"Introduction" section, Dr. Rothman wrote that he
14	identification as Harlow Exhibit 9.)		analyzed 23 case-control studies involving talc
15	THE WITNESS: Uh-huh.		and ovarian cancer.
16	MR. TISI: Are you talking	16	These included your studies as well,
17	about		correct?
18	MR. HEGARTY: The one I just	18	A. Uh-huh.
19	handed to you.	19	Q. Yes, sir?
20	MR. TISI: Okay.	20	A. Yes.
21	THE WITNESS: Uh-huh.	21	MR. TISI: Say "yes."
22		22	THE WITNESS: I'm sorry.
23	Q. When did you first see Exhibit	23	Yes.
	Number 9?		BY MR. HEGARTY:
	Page 99		Page 101
1	A. I first saw it after I had started	1	Q. The "Introduction" section above
2	doing work in preparation for our report that	2	Figure 1, just above Figure 1
3		3	A. Yes.
4	Q. The conclusion of this analysis is	4	Q states or notes that the relative
5		5	risk concluded from that review is 1.31. That is
6	A. Yes.	6	characterized or called as a "slight positive
7	Q. And that conclusion	7	association."
8	A. Oh, the Executive Summary?	8	Do you see where I'm reading?
9	Q. In the Executive Summary.	9	A. Yes.
10	•	10	Q. Do you agree that the relative risk
11	Q. At the end, it says:	11	that Dr. Rothman reported of 1.31 was a slight
12	"Based on these considerations, we	12	positive association?
13	suggest that the evidence to date does not	13	A. It's a positive association.
14	indicate that talc can be 'reasonably anticipated	14	Q. You would not characterize it as
15	to be a human carcinogen."	15	slight?
16	Did I read that correctly?	16	A. No. That's a term that we would not
17	A. Yes, you did.	17	normally use.
18	Q. And you did not cite that conclusion	18	Q. In your report for this litigation,
19	anywhere in your report, correct?	19	you did not do a strength of association analysis.
20	A. No, because I don't believe it to be	20	correct?
21	true.	21	MR. TISI: Objection.
22	Q. Did you talk with Dr. Rothman about	22	THE WITNESS: I'm not sure
1	this analysis?	23	what you mean by a "strength of
23	diffs diffally 515.		what you mount by a bureful of

	Page 102		Page 104
1 1 E	BY MR. HEGARTY:	1	You actually refer to the 1.31
2	Q. Let me ask in a different way.	2	finding from Dr. Rothman's 2000 study, correct?
3	Do you state anywhere in your report	3	A. That's correct.
	hat the relative risks or odds ratios reported	4	Q. And you actually show
	for talc use and ovarian cancer are strong?	5	A. And we cite it.
6	A. I don't believe we used "strong" as	6	Q. And you cite to it?
	word. I believe we used "consistently seen"	7	A. Yes.
1	cross multiple studies and	8	Q. You show Figure 1 from the 2000
9	Q. Did you I'm sorry. Go ahead.		paper of Dr. Rothman?
10	A and meta-analyses show a	10	A. That's correct.
	consistent association with narrow confidence	11	Q. You note at the bottom of page 7
	ntervals.		that:
13	Q. Is it your opinion in this	13	As regards to the 1.31 estimated
1	itigation that the relative risks and odds ratios		risk ratio that if valid, it would apply a 31
1	hat are reported for talc use and ovarian cancer		percent greater risk of ovarian cancer among talo
1	are strong?		users.
17	MR. TISI: Objection.	17	Correct?
18	THE WITNESS: Yeah. I would	18	A. That's correct.
19	say they are clinically relevant and	19	Q. Now, Dr. Rothman in this, in his
20	important.		analysis in Exhibit Number 9
	BY MR. HEGARTY:	21	A. Yes.
$\begin{vmatrix} 21 & 1 \\ 22 & \end{vmatrix}$	Q. Have you ever characterized in any	22	Q his 2000 analysis, did not
	publication of yours relative risks in the range		believe it was valid, correct?
_	of 1.2, 1.3, 1.4 as weak?	24	MR. TISI: Objection.
24 0		24	<u> </u>
1	Page 103 A. I'm sure I have.	1	Page 105 THE WITNESS: I don't know
2	Q. In fact, we looked at your 1999	2	whether he believed it was valid or not.
	oublication where you characterized the reported		whether he believed it was valid of hot.
_	elative risks at the time as weak odds ratios,		He well I'm looking for where he
+ 1	Clauve lisks at the time as weak odds fatios.	1	He well, I'm looking for where he
	*	4	might have where he specifically said
5 c	correct?	5	might have where he specifically said that.
	correct? A. That's correct.	5 6	might have where he specifically said that. BY MR. HEGARTY:
5 c 6 7	A. That's correct. Q. Back in 1999, based on the odds	5 6 7	might have where he specifically said that. BY MR. HEGARTY: Q. Well, based on the conclusion
5 c 6 7 8 r	A. That's correct. Q. Back in 1999, based on the odds atios you had reviewed at the time, you	5 6 7 8	might have where he specifically said that. BY MR. HEGARTY: Q. Well, based on the conclusion A. Yeah.
5 c 6 7 8 r 9 c	correct? A. That's correct. Q. Back in 1999, based on the odds atios you had reviewed at the time, you considered those to be weak odds ratios, correct?	5 6 7 8 9	might have where he specifically said that. BY MR. HEGARTY: Q. Well, based on the conclusion A. Yeah. Q at the bottom of the Executive
5 c 6 7 8 r 9 c 10	A. That's correct. Q. Back in 1999, based on the odds atios you had reviewed at the time, you considered those to be weak odds ratios, correct? MR. TISI: Objection.	5 6 7 8 9 10	might have where he specifically said that. BY MR. HEGARTY: Q. Well, based on the conclusion A. Yeah. Q at the bottom of the Executive Summary, wouldn't you agree that he did not
5 c 6 7 8 r 9 c 10 11	A. That's correct. Q. Back in 1999, based on the odds atios you had reviewed at the time, you considered those to be weak odds ratios, correct? MR. TISI: Objection. THE WITNESS: No. Well, weak	5 6 7 8 9 10 11	might have where he specifically said that. BY MR. HEGARTY: Q. Well, based on the conclusion A. Yeah. Q at the bottom of the Executive Summary, wouldn't you agree that he did not believe that 1.31 relative risk
5 c 6 7 8 r 9 c 10 11 12	A. That's correct. Q. Back in 1999, based on the odds atios you had reviewed at the time, you considered those to be weak odds ratios, correct? MR. TISI: Objection. THE WITNESS: No. Well, weak odds ratios merely means that it	5 6 7 8 9 10 11 12	might have where he specifically said that. BY MR. HEGARTY: Q. Well, based on the conclusion A. Yeah. Q at the bottom of the Executive Summary, wouldn't you agree that he did not believe that 1.31 relative risk MR. TISI: Objection.
5 c 6 7 8 r 9 c 10 11 12 13	A. That's correct. Q. Back in 1999, based on the odds atios you had reviewed at the time, you considered those to be weak odds ratios, correct? MR. TISI: Objection. THE WITNESS: No. Well, weak odds ratios merely means that it doesn't mean that it's clinically	5 6 7 8 9 10 11 12 13	might have where he specifically said that. BY MR. HEGARTY: Q. Well, based on the conclusion A. Yeah. Q at the bottom of the Executive Summary, wouldn't you agree that he did not believe that 1.31 relative risk MR. TISI: Objection. BY MR. HEGARTY:
5 c 6 7 8 r 9 c 10 11 12 13 14	A. That's correct. Q. Back in 1999, based on the odds atios you had reviewed at the time, you considered those to be weak odds ratios, correct? MR. TISI: Objection. THE WITNESS: No. Well, weak odds ratios merely means that it doesn't mean that it's clinically important. It means that it's not 3.0,	5 6 7 8 9 10 11 12 13 14	might have where he specifically said that. BY MR. HEGARTY: Q. Well, based on the conclusion A. Yeah. Q at the bottom of the Executive Summary, wouldn't you agree that he did not believe that 1.31 relative risk MR. TISI: Objection. BY MR. HEGARTY: Q or risk ratio let me finish my
5 c 6 7 8 r 9 c 10 11 12 13 14 15	A. That's correct. Q. Back in 1999, based on the odds atios you had reviewed at the time, you considered those to be weak odds ratios, correct? MR. TISI: Objection. THE WITNESS: No. Well, weak odds ratios merely means that it doesn't mean that it's clinically important. It means that it's not 3.0, 4.0, 5.0. It happened to be around 1.3,	5 6 7 8 9 10 11 12 13 14 15	might have where he specifically said that. BY MR. HEGARTY: Q. Well, based on the conclusion A. Yeah. Q at the bottom of the Executive Summary, wouldn't you agree that he did not believe that 1.31 relative risk MR. TISI: Objection. BY MR. HEGARTY: Q or risk ratio let me finish my question risk ratio was valid?
5 c 6 7 8 r 9 c 10 11 12 13 14 15 16	A. That's correct. Q. Back in 1999, based on the odds atios you had reviewed at the time, you considered those to be weak odds ratios, correct? MR. TISI: Objection. THE WITNESS: No. Well, weak odds ratios merely means that it doesn't mean that it's clinically important. It means that it's not 3.0, 4.0, 5.0. It happened to be around 1.3, 1.4.	5 6 7 8 9 10 11 12 13 14 15 16	might have where he specifically said that. BY MR. HEGARTY: Q. Well, based on the conclusion A. Yeah. Q at the bottom of the Executive Summary, wouldn't you agree that he did not believe that 1.31 relative risk MR. TISI: Objection. BY MR. HEGARTY: Q or risk ratio let me finish my question risk ratio was valid? MR. TISI: Object. Let me
5 c 6 7 8 r 9 c 10 11 12 13 14 15 16 17 F	A. That's correct. Q. Back in 1999, based on the odds atios you had reviewed at the time, you considered those to be weak odds ratios, correct? MR. TISI: Objection. THE WITNESS: No. Well, weak odds ratios merely means that it doesn't mean that it's clinically important. It means that it's not 3.0, 4.0, 5.0. It happened to be around 1.3, 1.4. BY MR. HEGARTY:	5 6 7 8 9 10 11 12 13 14 15 16	might have where he specifically said that. BY MR. HEGARTY: Q. Well, based on the conclusion A. Yeah. Q at the bottom of the Executive Summary, wouldn't you agree that he did not believe that 1.31 relative risk MR. TISI: Objection. BY MR. HEGARTY: Q or risk ratio let me finish my question risk ratio was valid? MR. TISI: Object. Let me just object.
5 c 6 7 8 r 9 c 10 11 12 13 14 15 16 17 E	A. That's correct. Q. Back in 1999, based on the odds atios you had reviewed at the time, you considered those to be weak odds ratios, correct? MR. TISI: Objection. THE WITNESS: No. Well, weak odds ratios merely means that it doesn't mean that it's clinically important. It means that it's not 3.0, 4.0, 5.0. It happened to be around 1.3, 1.4. BY MR. HEGARTY: Q. Looking at page 2 of your report.	5 6 7 8 9 10 11 12 13 14 15 16 17	might have where he specifically said that. BY MR. HEGARTY: Q. Well, based on the conclusion A. Yeah. Q at the bottom of the Executive Summary, wouldn't you agree that he did not believe that 1.31 relative risk MR. TISI: Objection. BY MR. HEGARTY: Q or risk ratio let me finish my question risk ratio was valid? MR. TISI: Object. Let me just object. You referred to the Executive
5 c 6 7 8 r 9 c 10 11 12 13 14 15 16 17 E 18 19	A. That's correct. Q. Back in 1999, based on the odds atios you had reviewed at the time, you considered those to be weak odds ratios, correct? MR. TISI: Objection. THE WITNESS: No. Well, weak odds ratios merely means that it doesn't mean that it's clinically important. It means that it's not 3.0, 4.0, 5.0. It happened to be around 1.3, 1.4. BY MR. HEGARTY: Q. Looking at page 2 of your report. A. Of my report?	5 6 7 8 9 10 11 12 13 14 15 16 17 18	might have where he specifically said that. BY MR. HEGARTY: Q. Well, based on the conclusion A. Yeah. Q at the bottom of the Executive Summary, wouldn't you agree that he did not believe that 1.31 relative risk MR. TISI: Objection. BY MR. HEGARTY: Q or risk ratio let me finish my question risk ratio was valid? MR. TISI: Object. Let me just object. You referred to the Executive Summary as a conclusion. As you know,
5 c 6 7 8 r 9 c 10 11 12 13 14 15 16 17 F 18 19 20	A. That's correct. Q. Back in 1999, based on the odds atios you had reviewed at the time, you considered those to be weak odds ratios, correct? MR. TISI: Objection. THE WITNESS: No. Well, weak odds ratios merely means that it doesn't mean that it's clinically important. It means that it's not 3.0, 4.0, 5.0. It happened to be around 1.3, 1.4. BY MR. HEGARTY: Q. Looking at page 2 of your report. A. Of my report? Q. Of your report.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	might have where he specifically said that. BY MR. HEGARTY: Q. Well, based on the conclusion A. Yeah. Q at the bottom of the Executive Summary, wouldn't you agree that he did not believe that 1.31 relative risk MR. TISI: Objection. BY MR. HEGARTY: Q or risk ratio let me finish my question risk ratio was valid? MR. TISI: Object. Let me just object. You referred to the Executive Summary as a conclusion. As you know, counsel, there is actually a Conclusion
5 c 6 7 8 r 9 c 10 11 12 13 14 15 16 17 E 18 19 20 21	A. That's correct. Q. Back in 1999, based on the odds atios you had reviewed at the time, you considered those to be weak odds ratios, correct? MR. TISI: Objection. THE WITNESS: No. Well, weak odds ratios merely means that it doesn't mean that it's clinically important. It means that it's not 3.0, 4.0, 5.0. It happened to be around 1.3, 1.4. BY MR. HEGARTY: Q. Looking at page 2 of your report. A. Of my report? Q. Of your report. I'm sorry. It is it is page 7.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	might have where he specifically said that. BY MR. HEGARTY: Q. Well, based on the conclusion A. Yeah. Q at the bottom of the Executive Summary, wouldn't you agree that he did not believe that 1.31 relative risk MR. TISI: Objection. BY MR. HEGARTY: Q or risk ratio let me finish my question risk ratio was valid? MR. TISI: Object. Let me just object. You referred to the Executive Summary as a conclusion. As you know, counsel, there is actually a Conclusion in the report that is not the Executive
5 c 6 7 8 r 9 c 10 11 12 13 14 15 16 17 H 18 19 20 21 22	A. That's correct. Q. Back in 1999, based on the odds atios you had reviewed at the time, you considered those to be weak odds ratios, correct? MR. TISI: Objection. THE WITNESS: No. Well, weak odds ratios merely means that it doesn't mean that it's clinically important. It means that it's not 3.0, 4.0, 5.0. It happened to be around 1.3, 1.4. BY MR. HEGARTY: Q. Looking at page 2 of your report. A. Of my report? Q. Of your report. I'm sorry. It is it is page 7. A. Yes.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	might have where he specifically said that. BY MR. HEGARTY: Q. Well, based on the conclusion A. Yeah. Q at the bottom of the Executive Summary, wouldn't you agree that he did not believe that 1.31 relative risk MR. TISI: Objection. BY MR. HEGARTY: Q or risk ratio let me finish my question risk ratio was valid? MR. TISI: Object. Let me just object. You referred to the Executive Summary as a conclusion. As you know, counsel, there is actually a Conclusion in the report that is not the Executive Summary.
5 c 6 7 8 r 9 c 10 11 12 13 14 15 16 17 H 18 19 20 21 22 23	A. That's correct. Q. Back in 1999, based on the odds atios you had reviewed at the time, you considered those to be weak odds ratios, correct? MR. TISI: Objection. THE WITNESS: No. Well, weak odds ratios merely means that it doesn't mean that it's clinically important. It means that it's not 3.0, 4.0, 5.0. It happened to be around 1.3, 1.4. BY MR. HEGARTY: Q. Looking at page 2 of your report. A. Of my report? Q. Of your report. I'm sorry. It is it is page 7.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	might have where he specifically said that. BY MR. HEGARTY: Q. Well, based on the conclusion A. Yeah. Q at the bottom of the Executive Summary, wouldn't you agree that he did not believe that 1.31 relative risk MR. TISI: Objection. BY MR. HEGARTY: Q or risk ratio let me finish my question risk ratio was valid? MR. TISI: Object. Let me just object. You referred to the Executive Summary as a conclusion. As you know, counsel, there is actually a Conclusion in the report that is not the Executive

	Page 106		Page 108
1	but don't characterize the Executive	1	MR. TISI: Objection.
2			BY MR. HEGARTY:
3	BY MR. HEGARTY:	3	Q. You would not have wrote you
4			would not have authored the statements contained
5	A. I guess I would agree with counsel	l	in Dr. Rothman's 2000 report?
6	that his ultimate opinion came in the summary of	l .	A. Absolutely not. Especially given
7		l .	that he specifically stated that there was no
8	Q. Well, the conclusion		biological plausibly plausible explanation for
9	A. Let's look at that.	9	it, and there was ample evidence at that time of
10	Q on page 8, the very bottom it	10	this report.
11	says:	11	Q. Did Dr. Rothman tell you what he
12	"Based on these considerations"	12	thought had changed since 2000
	referring to what he described above again,	13	A. No.
14	this is page 8.	14	Q that would change his opinions?
15	, 1 E	15	A. No.
16	Q. The "Conclusion" section.	16	Q. If you look over on page 3?
17		17	A. Of his report?
18		18	Q. Of his 2000 publication.
19	"Based on these considerations, we	19	A. 2000 report. Okay. Hold on.
	suggest that the evidence to date does not	20	MR. TISI: Objection to
	indicate that talc can be 'reasonably anticipated	21	calling it a publication.
	to be a human carcinogen."	22	THE WITNESS: Okay.
23			BY MR. HEGARTY:
24	MR. TISI: Please, you're free	24	Q. Look under the section "Issues
	Page 107		Page 109
1	to read the entire Conclusion.		Affecting Causal Inference" section.
2	THE WITNESS: Yeah, yeah.	2	Do you see that?
3	· · · · · · · · · · · · · · · · · · ·	3	A. Yes.
4	Yes, he states that.	4	Q. This describes a methodology
5			Dr. Rothman performed back in 2000, correct?
6	, ,	6	A. Yes.
	back in 2000 did not find valid that the that	7	Q. As to dose
	there was a 31 percent greater risk for ovarian	8	MR. TISI: Actually, if you're
9	•	9	going to refer to the section and ask you
10	3	10	about the methodology, please read it,
11 12		11 12	Sir.
		l	THE WITNESS: Yeah, yeah. BY MR. HEGARTY:
13 14		13	
1	BY MR. HEGARTY:	15	Q. As to dose response MR. TISI: Give him a chance
16		16	to read it, Mark.
		17	MR. HEGARTY: Okay, but he
117	,	18	didn't ask he needed to read it.
17	thought at the time. Ohviously, given that he	()	
18	thought at the time. Obviously, given that he coauthored my report, he does not believe that	l	THE WITNESS: No. I don't
18 19	coauthored my report, he does not believe that	19	THE WITNESS: No, I don't. You can ask the question
18 19 20	coauthored my report, he does not believe that now.	19 20	You can ask the question.
18 19 20 21	coauthored my report, he does not believe that now. Q. When you read the 2000 summary, did	19 20 21	You can ask the question. MR. TISI: You can't ask
18 19 20 21 22	coauthored my report, he does not believe that now. Q. When you read the 2000 summary, did you agree that it was accurate at the time it was	19 20 21 22	You can ask the question. MR. TISI: You can't ask the question, but he does need to read it
18 19 20 21 22	coauthored my report, he does not believe that now. Q. When you read the 2000 summary, did you agree that it was accurate at the time it was prepared?	19 20 21	You can ask the question. MR. TISI: You can't ask

1	Page 110	1	Page 112
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	MR. HEGARTY: Chris, I think the doctor needs to tell me if he needs	1	Q. Where in your report do you report exposure misclassification?
$\frac{2}{3}$	to read it first. Please don't instruct	3	A. In the review of the cohort studies.
4	him to read it.	4	Q. Nowhere in your report do you do an
5	MR. TISI: I'm objecting. I'm		analysis of confounding, correct?
6	going to instruct him. If you're going	6	A. That's not true.
7	to ask him about a section of the report,	7	Q. Show me in your report where you do
8	he needs to take a look at it.		an analysis of confounding.
9	MR. HEGARTY: Understood,	9	A. By we discuss the potential for
10	but and I'm fine with that.	_	confounding. I'm not sure what you mean by "at
11	MR. TISI: Thank you.	11	analysis of confounding."
12	MR. HEGARTY: But if he needs	12	Q. Well, where do you discuss the
13	to read it, he needs to tell me so we can		potential for confounding in your report?
14	go off the record so I'm not taking up	14	A. My report?
15	time with him reading.	15	(Reviews document.)
16	MR. TISI: Well, I'm not going	16	In the overall approach and
17	to go off the record. If you're going to		methodological review.
18	ask him about a section of the report,	18	Q. On what page?
19	he's going to read the section of the	19	A. On page 4. The paragraph that
20	report.	20	begins:
21	MR. HEGARTY: Fine.	21	"If no checklist for causal
22	MR. TISI: If you ask him	22	inference exists, then how does causal inference
23	about a sentence, that's fine, but go	23	proceed?"
24	ahead.	24	And then the sentence was:
	Page 111		Page 113
	BY MR. HEGARTY:	1	"Or, was the association
2	Q. Are you there		attributable to some other factor that causes the
3	A. Yes.		disease and is associated with the exposure unde
4	Q with me?		study?"
5	A. Please ask your question.	5	That is the definition of
6	Q. Dr. Rothman writes in that section		confounding.
	as it relates to dose response:	7	Q. Do you do analysis of potential
8	"With rare exception, every causal		confounding factors with regard to talc and
	relation in epidemiologic research shows a		ovarian cancer in your report?
	progressive relation between various measures o		A. In the evaluation of the articles,
l	increasing exposure."		we looked to see whether confounders were take
12	A. Uh-huh.		into consideration in the assessments.
13	Q. That is a true statement, correct?	13	Q. Nowhere in your report do you
15	MR. TISI: Objection. THE WITNESS: Yes.		discuss the potential confounding factor of BMI, correct?
l		16	
17	BY MR. HEGARTY: Q. His methodology then lists five		A. Not not that I'm aware of. But, remember, a confounder has to have preceded th
	factors: exposure misclassification, recall bias,		use of a particular exposure.
	confounding, dose-response trends, and biologic		Q. Nowhere in your report do you
	mechanism, correct?		discuss the potential confounder of hormone
21	A. Yes.		replacement therapy, correct?
22	Q. Nowhere in your report do you	22	A. Again, it's not considered a
	analyze exposure misclassification, correct?		confounder if it doesn't if it's not antecedent
24	A. Not correct.		to the risk to the use of the exposure.
	A. NOI COITECT.		to the risk to the use of the exposure.

	Page 114		Page 116
1	Q. My question is different, though.	1	So I do state that in the
2	Nowhere in your report do you		conclusions.
	discuss hormone replacement therapy as a potential	3	
	confounder for the talcum powder and ovarian	4	
1	cancer studies, correct?	5	
6	A. That's correct, because it's	6	
"	unlikely to be a confounder.	7	A. Yes.
8	Q. Nowhere in your report do you	8	
	discuss smoking as a potential confounder,	9	1 0
1	correct?	10	
11		11	•
	A. I don't believe that smoking is a strong risk factor for ovarian cancer.		analyzing the trend from the data, correct?
	_	13	• •
13	Q. My question is different, Doctor.		A. It appears that is what he is doing, yes. I don't know what data he is using to derive
14	My question is: Do you anywhere in	1	that.
	your report discuss smoking	_	
16		16	,
17	Q as a potential confounder?		it
18	A. No.	18	•
19	Q. Do you discuss anywhere in your	19	7 1
1	report any of the potential confounders that are	20	
	listed in the studies that you reviewed looking at	21	1 6
	talcum powder use and ovarian cancer?	22	
23	A. I don't believe I discussed it in	23	
24	the report because the studies that were done and	24	at a time. Sorry.
	Page 115		Page 117
1	also combined together in meta-analyses had done	1	THE WITNESS: No, and
2	their best job at trying to control for known risk	2	Dr. Rothman did not recommend that we do
3	factors for ovarian cancer.	3	that.
4	Q. Nowhere in your report do you	4	
5		1	
	analyze dose-response trends, correct?	5	Q. Did you actually have a discussion
6	A. I believe that's not true.	6	Q. Did you actually have a discussion with him about it?
6 7	-		Q. Did you actually have a discussion with him about it?A. I don't recall.
	A. I believe that's not true.	6	Q. Did you actually have a discussion with him about it?A. I don't recall.
7	A. I believe that's not true. I believe at the end of my report (Reviews document).	6 7 8	Q. Did you actually have a discussion with him about it?A. I don't recall.
7 8 9	A. I believe that's not true. I believe at the end of my report (Reviews document).	6 7 8 9	 Q. Did you actually have a discussion with him about it? A. I don't recall. Q. With regard to dose response, you
7 8 9	 A. I believe that's not true. I believe at the end of my report (Reviews document). Q. Let me ask a different way. Let me 	6 7 8 9	 Q. Did you actually have a discussion with him about it? A. I don't recall. Q. With regard to dose response, you only cite a single study that found a
7 8 9 10	A. I believe that's not true. I believe at the end of my report (Reviews document). Q. Let me ask a different way. Let me withdraw that question.	6 7 8 9 10	Q. Did you actually have a discussion with him about it? A. I don't recall. Q. With regard to dose response, you only cite a single study that found a dose-response trend.
7 8 9 10 11 12	A. I believe that's not true. I believe at the end of my report (Reviews document). Q. Let me ask a different way. Let me withdraw that question. A. Okay.	6 7 8 9 10 11	Q. Did you actually have a discussion with him about it? A. I don't recall. Q. With regard to dose response, you only cite a single study that found a dose-response trend. That's Cramer on page 8, correct? MR. TISI: Objection.
7 8 9 10 11 12 13	A. I believe that's not true. I believe at the end of my report (Reviews document). Q. Let me ask a different way. Let me withdraw that question. A. Okay. Q. Nowhere in your report do you do an	6 7 8 9 10 11 12	Q. Did you actually have a discussion with him about it? A. I don't recall. Q. With regard to dose response, you only cite a single study that found a dose-response trend. That's Cramer on page 8, correct? MR. TISI: Objection. Misstates.
7 8 9 10 11 12 13 14	A. I believe that's not true. I believe at the end of my report (Reviews document). Q. Let me ask a different way. Let me withdraw that question. A. Okay. Q. Nowhere in your report do you do an analysis of the various dose-response findings	6 7 8 9 10 11 12 13 14	Q. Did you actually have a discussion with him about it? A. I don't recall. Q. With regard to dose response, you only cite a single study that found a dose-response trend. That's Cramer on page 8, correct? MR. TISI: Objection. Misstates.
7 8 9 10 11 12 13 14	A. I believe that's not true. I believe at the end of my report (Reviews document). Q. Let me ask a different way. Let me withdraw that question. A. Okay. Q. Nowhere in your report do you do an analysis of the various dose-response findings from the studies and report on what the trends are as to those studies, correct?	6 7 8 9 10 11 12 13 14	Q. Did you actually have a discussion with him about it? A. I don't recall. Q. With regard to dose response, you only cite a single study that found a dose-response trend. That's Cramer on page 8, correct? MR. TISI: Objection. Misstates. THE WITNESS: In my report? BY MR. HEGARTY: Q. In your report, Doctor.
7 8 9 10 11 12 13 14 15 16	A. I believe that's not true. I believe at the end of my report (Reviews document). Q. Let me ask a different way. Let me withdraw that question. A. Okay. Q. Nowhere in your report do you do an analysis of the various dose-response findings from the studies and report on what the trends are as to those studies, correct?	6 7 8 9 10 11 12 13 14 15	Q. Did you actually have a discussion with him about it? A. I don't recall. Q. With regard to dose response, you only cite a single study that found a dose-response trend. That's Cramer on page 8, correct? MR. TISI: Objection. Misstates. THE WITNESS: In my report? BY MR. HEGARTY:
7 8 9 10 11 12 13 14 15 16 17	A. I believe that's not true. I believe at the end of my report (Reviews document). Q. Let me ask a different way. Let me withdraw that question. A. Okay. Q. Nowhere in your report do you do an analysis of the various dose-response findings from the studies and report on what the trends are as to those studies, correct? A. I believe I could state in	6 7 8 9 10 11 12 13 14 15 16	Q. Did you actually have a discussion with him about it? A. I don't recall. Q. With regard to dose response, you only cite a single study that found a dose-response trend. That's Cramer on page 8, correct? MR. TISI: Objection. Misstates. THE WITNESS: In my report? BY MR. HEGARTY: Q. In your report, Doctor. MR. TISI: Misstates the evidence and his report.
7 8 9 10 11 12 13 14 15 16 17 18	A. I believe that's not true. I believe at the end of my report (Reviews document). Q. Let me ask a different way. Let me withdraw that question. A. Okay. Q. Nowhere in your report do you do an analysis of the various dose-response findings from the studies and report on what the trends are as to those studies, correct? A. I believe I could state in "Considering the preponderance of the evidence,	6 7 8 9 10 11 12 13 14 15 16 17	Q. Did you actually have a discussion with him about it? A. I don't recall. Q. With regard to dose response, you only cite a single study that found a dose-response trend. That's Cramer on page 8, correct? MR. TISI: Objection. Misstates. THE WITNESS: In my report? BY MR. HEGARTY: Q. In your report, Doctor. MR. TISI: Misstates the evidence and his report.
7 8 9 10 11 12 13 14 15 16 17 18	A. I believe that's not true. I believe at the end of my report (Reviews document). Q. Let me ask a different way. Let me withdraw that question. A. Okay. Q. Nowhere in your report do you do an analysis of the various dose-response findings from the studies and report on what the trends are as to those studies, correct? A. I believe I could state in "Considering the preponderance of the evidence, including after controlling for known risk and	6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Did you actually have a discussion with him about it? A. I don't recall. Q. With regard to dose response, you only cite a single study that found a dose-response trend. That's Cramer on page 8, correct? MR. TISI: Objection. Misstates. THE WITNESS: In my report? BY MR. HEGARTY: Q. In your report, Doctor. MR. TISI: Misstates the evidence and his report. THE WITNESS: Where? Where
7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. I believe that's not true. I believe at the end of my report (Reviews document). Q. Let me ask a different way. Let me withdraw that question. A. Okay. Q. Nowhere in your report do you do an analysis of the various dose-response findings from the studies and report on what the trends are as to those studies, correct? A. I believe I could state in "Considering the preponderance of the evidence, including after controlling for known risk and protective factors for ovarian cancer, evidence of	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Did you actually have a discussion with him about it? A. I don't recall. Q. With regard to dose response, you only cite a single study that found a dose-response trend. That's Cramer on page 8, correct? MR. TISI: Objection. Misstates. THE WITNESS: In my report? BY MR. HEGARTY: Q. In your report, Doctor. MR. TISI: Misstates the evidence and his report. THE WITNESS: Where? Where
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. I believe that's not true. I believe at the end of my report (Reviews document). Q. Let me ask a different way. Let me withdraw that question. A. Okay. Q. Nowhere in your report do you do an analysis of the various dose-response findings from the studies and report on what the trends are as to those studies, correct? A. I believe I could state in "Considering the preponderance of the evidence, including after controlling for known risk and protective factors for ovarian cancer, evidence of a trend of increasing risk of ovarian cancer with	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Did you actually have a discussion with him about it? A. I don't recall. Q. With regard to dose response, you only cite a single study that found a dose-response trend. That's Cramer on page 8, correct? MR. TISI: Objection. Misstates. THE WITNESS: In my report? BY MR. HEGARTY: Q. In your report, Doctor. MR. TISI: Misstates the evidence and his report. THE WITNESS: Where? Where is that located?
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. I believe that's not true. I believe at the end of my report (Reviews document). Q. Let me ask a different way. Let me withdraw that question. A. Okay. Q. Nowhere in your report do you do an analysis of the various dose-response findings from the studies and report on what the trends are as to those studies, correct? A. I believe I could state in "Considering the preponderance of the evidence, including after controlling for known risk and protective factors for ovarian cancer, evidence of a trend of increasing risk of ovarian cancer with increasing talc applications" and that was	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Did you actually have a discussion with him about it? A. I don't recall. Q. With regard to dose response, you only cite a single study that found a dose-response trend. That's Cramer on page 8, correct? MR. TISI: Objection. Misstates. THE WITNESS: In my report? BY MR. HEGARTY: Q. In your report, Doctor. MR. TISI: Misstates the evidence and his report. THE WITNESS: Where? Where is that located? BY MR. HEGARTY:
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. I believe that's not true. I believe at the end of my report (Reviews document). Q. Let me ask a different way. Let me withdraw that question. A. Okay. Q. Nowhere in your report do you do an analysis of the various dose-response findings from the studies and report on what the trends are as to those studies, correct? A. I believe I could state in "Considering the preponderance of the evidence, including after controlling for known risk and protective factors for ovarian cancer, evidence of a trend of increasing risk of ovarian cancer with increasing talc applications" and that was evident from the 1999 publication and the 2012	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Did you actually have a discussion with him about it? A. I don't recall. Q. With regard to dose response, you only cite a single study that found a dose-response trend. That's Cramer on page 8, correct? MR. TISI: Objection. Misstates. THE WITNESS: In my report? BY MR. HEGARTY: Q. In your report, Doctor. MR. TISI: Misstates the evidence and his report. THE WITNESS: Where? Where is that located? BY MR. HEGARTY: Q. In the middle paragraph of page 8 above the "Cohort Studies."

	D 110		D 120
1	Page 118 yes.	1	Q. Other than fair point. Let's add
2	Q. You don't cite any other study in	2	Schildkraut.
3	your report that discusses a dose-response trend,	3	Other than Cramer and Schildkraut,
	correct?	4	you don't report an increasing trend with
		5	•
5	MR. TISI: Objection.		increasing frequency, duration, or cumulative
6	Misstates his report.	6	exposure from any other study, correct?
7	THE WITNESS: Again, I	7	MR. TISI: Objection.
8	selected Cramer's study as a as the	8	Misstates his report.
9	most recent relevant article that shows a	9	THE WITNESS: Okay. So, as
10	dose response.	10	you know, the Cramer study was the New
1	BY MR. HEGARTY:	11	England case-control study that was
12	Q. Going back to my question.	12	continued to build cases and controls,
13	You don't discuss anywhere else in	13	and so the 1992 report that we published
14		14	was from that same data set with much
15	1 1	15	fewer cases and controls showing a dose
	trend, correct?	16	response.
17	A. It's not specifically stated here in	17	As you add more cases and
	the report.	18	controls to that particular that
19	MR. TISI: And, again,	19	particular case and control series, you
20	objection. There are other discussions	20	continue to see a dose response. And as
21	in the report.	21	you even continue to add more in the
22	MR. HEGARTY: Chris, come on.	22	2016, it continues to show that kind of
23	Let's limit your objections to	23	trend.
24	MR. TISI: Okay. I'm happy to	24	So, no, I did not I did not
	Page 119		Page 121
1	do that.	1	specifically talk about the 1992 and the
2	MR. HEGARTY: form, and you	2	1999 papers because the 2016 paper was
3	know that that was an improper objection,	3	the most recent one.
4	and you were coaching the witness.	4	BY MR. HEGARTY:
5	MR. TISI: You know you	5	Q. You are not an author on Cramer's
6	know that you're misstating his report.	6	2016 paper?
7	MR. HEGARTY: Then it's up for	7	A. I am not, but it is from that data
8	the doctor to tell me I'm misstating his	8	set.
9	report.	9	Q. You're not an author on the
10	MR. TISI: No, it's up to you	10	Schildkraut paper?
11	to ask fair questions.	11	A. I am not.
	MR. HEGARTY: You know how	12	Q. Going back to my question.
12	that works.	13	The only two studies you report on
12 13	that works.		· · · · · · · · · · · · · · · · · · ·
	MR. TISI: It's up to you to	14	as showing an increasing trend with increasing
13		14 15	as showing an increasing trend with increasing dose in your report are the Cramer and Schildkraut
13 14	MR. TISI: It's up to you to	15	
13 14 15	MR. TISI: It's up to you to ask fair questions.	15	dose in your report are the Cramer and Schildkraut
13 14 15 16 17	MR. TISI: It's up to you to ask fair questions. MR. HEGARTY: It is a fair	15 16	dose in your report are the Cramer and Schildkraut study, correct?
13 14 15 16 17	MR. TISI: It's up to you to ask fair questions. MR. HEGARTY: It is a fair question.	15 16 17	dose in your report are the Cramer and Schildkraut study, correct? MR. TISI: Objection. Misstates his report.
13 14 15 16 17 18	MR. TISI: It's up to you to ask fair questions. MR. HEGARTY: It is a fair question. BY MR. HEGARTY: Q. Doctor, you do actually	15 16 17 18	dose in your report are the Cramer and Schildkraut study, correct? MR. TISI: Objection. Misstates his report. THE WITNESS: Yeah, those
13 14 15 16 17 18 19 20	MR. TISI: It's up to you to ask fair questions. MR. HEGARTY: It is a fair question. BY MR. HEGARTY: Q. Doctor, you do actually A. Actually actually, if I may, I	15 16 17 18 19 20	dose in your report are the Cramer and Schildkraut study, correct? MR. TISI: Objection. Misstates his report. THE WITNESS: Yeah, those those are what was stated in the report
13 14 15 16 17 18 19 20 21	MR. TISI: It's up to you to ask fair questions. MR. HEGARTY: It is a fair question. BY MR. HEGARTY: Q. Doctor, you do actually A. Actually actually, if I may, I believe also I cite Schildkraut's study	15 16 17 18 19 20 21	dose in your report are the Cramer and Schildkraut study, correct? MR. TISI: Objection. Misstates his report. THE WITNESS: Yeah, those those are what was stated in the report as what I thought ample evidence to
13 14 15 16 17 18 19 20 21 22	MR. TISI: It's up to you to ask fair questions. MR. HEGARTY: It is a fair question. BY MR. HEGARTY: Q. Doctor, you do actually A. Actually actually, if I may, I believe also I cite Schildkraut's study Q. Do you report on what Schildkraut	15 16 17 18 19 20 21 22	dose in your report are the Cramer and Schildkraut study, correct? MR. TISI: Objection. Misstates his report. THE WITNESS: Yeah, those those are what was stated in the report as what I thought ample evidence to suggest that dose response is present.
13 14 15 16 17 18 19 20 21 22 23	MR. TISI: It's up to you to ask fair questions. MR. HEGARTY: It is a fair question. BY MR. HEGARTY: Q. Doctor, you do actually A. Actually actually, if I may, I believe also I cite Schildkraut's study	15 16 17 18 19 20 21 22 23	dose in your report are the Cramer and Schildkraut study, correct? MR. TISI: Objection. Misstates his report. THE WITNESS: Yeah, those those are what was stated in the report as what I thought ample evidence to

1	Page 122	1	Page 124 MR. HEGARTY: You can show it
	that reported no dose response, the Davis study on	$\frac{1}{2}$	him when you do your questioning, Chris.
	page 14 and the Taher study on pages 13 and 14, correct?	3	You know how that works.
4	A. The Davis study on page 13.	4	MR. TISI: No. You know how
5	Q. 14.	5	it works. You can't ask him about a
6	A. Oh, 14. I'm sorry.	6	study and not show him the study.
7	Yes.	7	MR. HEGARTY: I can withdraw
8	Q. And then the Taher study you also	8	the question. That's absolutely
	report did not find an increasing trend or dose	9	permitted.
	response, correct?	10	MR. TISI: Well
11	A. However, in the Davis article, they		BY MR. HEGARTY:
	did not lump together frequency and duration of	12	Q. Look over on page 355 of your
1	use to get a cumulative exposure measure. So it	l	article.
	was they did not. For whatever reason, they chose	14	A. Uh-huh. Hold on a second. Let
	not to do that.		me let me just get the article.
16	And with the Taher study, it was	16	Q. It's one of the exhibits.
	again, it was not what I would consider to be an	17	A. Yeah.
	appropriate a complete ascertainment of	18	MR. TISI: He's going to
	exposure.	19	his his ones.
20	Q. You mentioned your '92 and '99	20	THE WITNESS: Okay.
21	study.	21	BY MR. HEGARTY:
22	Your actually your '99 study, as	22	Q. 355. Lower left-hand corner at the
23	we looked at a short time ago, found no dose	23	bottom. Tell me when you're there.
	response, correct?	24	A. Yep. There.
	Page 123		Page 125
1	Page 123 MR. TISI: Objection.	1	Page 125 Q. No. This part. This page.
1 2		1 2	-
1	MR. TISI: Objection.		Q. No. This part. This page.
2	MR. TISI: Objection. THE WITNESS: No, that's not	2	Q. No. This part. This page. (Indicates).
3	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer?	2 3	Q. No. This part. This page.(Indicates).A. 355?
2 3 4 5	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY:	2 3 4	Q. No. This part. This page. (Indicates). A. 355? Q. 355.
2 3 4 5	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY: Q. Well, let me go back over what you	2 3 4 5	Q. No. This part. This page. (Indicates). A. 355? Q. 355. A. Oh, I'm sorry. Yep. I'm here.
2 3 4 5 6 7	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY: Q. Well, let me go back over what you said.	2 3 4 5 6 7	 Q. No. This part. This page. (Indicates). A. 355? Q. 355. A. Oh, I'm sorry. Yep. I'm here. Q. You wrote:
2 3 4 5 6 7 8 9	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY: Q. Well, let me go back over what you said. A. Well, let me go look at the data. Let me pull up the article. Q. I got to ask my question.	2 3 4 5 6 7	 Q. No. This part. This page. (Indicates). A. 355? Q. 355. A. Oh, I'm sorry. Yep. I'm here. Q. You wrote: "Most talc and ovarian cancer
2 3 4 5 6 7 8	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY: Q. Well, let me go back over what you said. A. Well, let me go look at the data. Let me pull up the article.	2 3 4 5 6 7 8	Q. No. This part. This page. (Indicates). A. 355? Q. 355. A. Oh, I'm sorry. Yep. I'm here. Q. You wrote: "Most talc and ovarian cancer studies"
2 3 4 5 6 7 8 9 10 11	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY: Q. Well, let me go back over what you said. A. Well, let me go look at the data. Let me pull up the article. Q. I got to ask my question.	2 3 4 5 6 7 8 9	Q. No. This part. This page. (Indicates). A. 355? Q. 355. A. Oh, I'm sorry. Yep. I'm here. Q. You wrote: "Most talc and ovarian cancer studies" A. I'm sorry. On which? On which?
2 3 4 5 6 7 8 9 10 11 12	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY: Q. Well, let me go back over what you said. A. Well, let me go look at the data. Let me pull up the article. Q. I got to ask my question. MR. TISI: Well, no. You said his article does not show a dose response. He says he wants to look at	2 3 4 5 6 7 8 9 10 11 12	Q. No. This part. This page. (Indicates). A. 355? Q. 355. A. Oh, I'm sorry. Yep. I'm here. Q. You wrote: "Most talc and ovarian cancer studies" A. I'm sorry. On which? On which? Q. Lower left-hand corner. A. Okay. Got it. Yep. Q. "Most talc and ovarian cancer
2 3 4 5 6 7 8 9 10 11 12 13	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY: Q. Well, let me go back over what you said. A. Well, let me go look at the data. Let me pull up the article. Q. I got to ask my question. MR. TISI: Well, no. You said his article does not show a dose response. He says he wants to look at his table.	2 3 4 5 6 7 8 9 10 11 12 13	Q. No. This part. This page. (Indicates). A. 355? Q. 355. A. Oh, I'm sorry. Yep. I'm here. Q. You wrote: "Most talc and ovarian cancer studies" A. I'm sorry. On which? On which? Q. Lower left-hand corner. A. Okay. Got it. Yep. Q. "Most talc and ovarian cancer studies that have addressed dose response,
2 3 4 5 6 7 8 9 10 11 12 13 14	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY: Q. Well, let me go back over what you said. A. Well, let me go look at the data. Let me pull up the article. Q. I got to ask my question. MR. TISI: Well, no. You said his article does not show a dose response. He says he wants to look at his table. MR. HEGARTY: Withdraw my	2 3 4 5 6 7 8 9 10 11 12 13 14	Q. No. This part. This page. (Indicates). A. 355? Q. 355. A. Oh, I'm sorry. Yep. I'm here. Q. You wrote: "Most talc and ovarian cancer studies" A. I'm sorry. On which? On which? Q. Lower left-hand corner. A. Okay. Got it. Yep. Q. "Most talc and ovarian cancer studies that have addressed dose response, including this one, have failed to demonstrate
2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY: Q. Well, let me go back over what you said. A. Well, let me go look at the data. Let me pull up the article. Q. I got to ask my question. MR. TISI: Well, no. You said his article does not show a dose response. He says he wants to look at his table. MR. HEGARTY: Withdraw my withdraw my question. Let me ask another	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. No. This part. This page. (Indicates). A. 355? Q. 355. A. Oh, I'm sorry. Yep. I'm here. Q. You wrote: "Most talc and ovarian cancer studies" A. I'm sorry. On which? On which? Q. Lower left-hand corner. A. Okay. Got it. Yep. Q. "Most talc and ovarian cancer studies that have addressed dose response, including this one, have failed to demonstrate consistent dose response relationships with
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY: Q. Well, let me go back over what you said. A. Well, let me go look at the data. Let me pull up the article. Q. I got to ask my question. MR. TISI: Well, no. You said his article does not show a dose response. He says he wants to look at his table. MR. HEGARTY: Withdraw my withdraw my question. Let me ask another question.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. No. This part. This page. (Indicates). A. 355? Q. 355. A. Oh, I'm sorry. Yep. I'm here. Q. You wrote: "Most talc and ovarian cancer studies" A. I'm sorry. On which? On which? Q. Lower left-hand corner. A. Okay. Got it. Yep. Q. "Most talc and ovarian cancer studies that have addressed dose response, including this one, have failed to demonstrate consistent dose response relationships with measures of the intensity of the exposure,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY: Q. Well, let me go back over what you said. A. Well, let me go look at the data. Let me pull up the article. Q. I got to ask my question. MR. TISI: Well, no. You said his article does not show a dose response. He says he wants to look at his table. MR. HEGARTY: Withdraw my withdraw my question. Let me ask another question. MR. TISI: You can't do that.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. No. This part. This page. (Indicates). A. 355? Q. 355. A. Oh, I'm sorry. Yep. I'm here. Q. You wrote: "Most talc and ovarian cancer studies" A. I'm sorry. On which? On which? Q. Lower left-hand corner. A. Okay. Got it. Yep. Q. "Most talc and ovarian cancer studies that have addressed dose response, including this one, have failed to demonstrate consistent dose response relationships with measures of the intensity of the exposure, especially when the trend is examined among users
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY: Q. Well, let me go back over what you said. A. Well, let me go look at the data. Let me pull up the article. Q. I got to ask my question. MR. TISI: Well, no. You said his article does not show a dose response. He says he wants to look at his table. MR. HEGARTY: Withdraw my withdraw my question. Let me ask another question. MR. TISI: You can't do that. No, you can't do that.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. No. This part. This page. (Indicates). A. 355? Q. 355. A. Oh, I'm sorry. Yep. I'm here. Q. You wrote: "Most talc and ovarian cancer studies" A. I'm sorry. On which? On which? Q. Lower left-hand corner. A. Okay. Got it. Yep. Q. "Most talc and ovarian cancer studies that have addressed dose response, including this one, have failed to demonstrate consistent dose response relationships with measures of the intensity of the exposure, especially when the trend is examined among users only."
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY: Q. Well, let me go back over what you said. A. Well, let me go look at the data. Let me pull up the article. Q. I got to ask my question. MR. TISI: Well, no. You said his article does not show a dose response. He says he wants to look at his table. MR. HEGARTY: Withdraw my withdraw my question. Let me ask another question. MR. TISI: You can't do that. No, you can't do that. MR. HEGARTY: Yes, I can.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. No. This part. This page. (Indicates). A. 355? Q. 355. A. Oh, I'm sorry. Yep. I'm here. Q. You wrote: "Most talc and ovarian cancer studies" A. I'm sorry. On which? On which? Q. Lower left-hand corner. A. Okay. Got it. Yep. Q. "Most talc and ovarian cancer studies that have addressed dose response, including this one, have failed to demonstrate consistent dose response relationships with measures of the intensity of the exposure, especially when the trend is examined among users only." And you agreed with me that was a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY: Q. Well, let me go back over what you said. A. Well, let me go look at the data. Let me pull up the article. Q. I got to ask my question. MR. TISI: Well, no. You said his article does not show a dose response. He says he wants to look at his table. MR. HEGARTY: Withdraw my withdraw my question. Let me ask another question. MR. TISI: You can't do that. No, you can't do that. MR. HEGARTY: Yes, I can. MR. TISI: You can't do that.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. No. This part. This page. (Indicates). A. 355? Q. 355. A. Oh, I'm sorry. Yep. I'm here. Q. You wrote: "Most talc and ovarian cancer studies" A. I'm sorry. On which? On which? Q. Lower left-hand corner. A. Okay. Got it. Yep. Q. "Most talc and ovarian cancer studies that have addressed dose response, including this one, have failed to demonstrate consistent dose response relationships with measures of the intensity of the exposure, especially when the trend is examined among users only." And you agreed with me that was a true statement back then, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY: Q. Well, let me go back over what you said. A. Well, let me go look at the data. Let me pull up the article. Q. I got to ask my question. MR. TISI: Well, no. You said his article does not show a dose response. He says he wants to look at his table. MR. HEGARTY: Withdraw my withdraw my question. Let me ask another question. MR. TISI: You can't do that. No, you can't do that. MR. HEGARTY: Yes, I can. MR. TISI: You can't do that. MR. HEGARTY: Let me ask a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. No. This part. This page. (Indicates). A. 355? Q. 355. A. Oh, I'm sorry. Yep. I'm here. Q. You wrote: "Most talc and ovarian cancer studies" A. I'm sorry. On which? On which? Q. Lower left-hand corner. A. Okay. Got it. Yep. Q. "Most talc and ovarian cancer studies that have addressed dose response, including this one, have failed to demonstrate consistent dose response relationships with measures of the intensity of the exposure, especially when the trend is examined among users only." And you agreed with me that was a true statement back then, correct? A. Yeah, and that is a true statement.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY: Q. Well, let me go back over what you said. A. Well, let me go look at the data. Let me pull up the article. Q. I got to ask my question. MR. TISI: Well, no. You said his article does not show a dose response. He says he wants to look at his table. MR. HEGARTY: Withdraw my withdraw my question. Let me ask another question. MR. TISI: You can't do that. No, you can't do that. MR. HEGARTY: Yes, I can. MR. TISI: You can't do that. MR. HEGARTY: Let me ask a different question.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. No. This part. This page. (Indicates). A. 355? Q. 355. A. Oh, I'm sorry. Yep. I'm here. Q. You wrote: "Most talc and ovarian cancer studies" A. I'm sorry. On which? On which? Q. Lower left-hand corner. A. Okay. Got it. Yep. Q. "Most talc and ovarian cancer studies that have addressed dose response, including this one, have failed to demonstrate consistent dose response relationships with measures of the intensity of the exposure, especially when the trend is examined among users only." And you agreed with me that was a true statement back then, correct? A. Yeah, and that is a true statement. If you look at the table by which this comes and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY: Q. Well, let me go back over what you said. A. Well, let me go look at the data. Let me pull up the article. Q. I got to ask my question. MR. TISI: Well, no. You said his article does not show a dose response. He says he wants to look at his table. MR. HEGARTY: Withdraw my withdraw my question. Let me ask another question. MR. TISI: You can't do that. No, you can't do that. MR. HEGARTY: Yes, I can. MR. TISI: You can't do that. MR. HEGARTY: Let me ask a different question. MR. TISI: No. I want to show	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. No. This part. This page. (Indicates). A. 355? Q. 355. A. Oh, I'm sorry. Yep. I'm here. Q. You wrote: "Most talc and ovarian cancer studies" A. I'm sorry. On which? On which? Q. Lower left-hand corner. A. Okay. Got it. Yep. Q. "Most talc and ovarian cancer studies that have addressed dose response, including this one, have failed to demonstrate consistent dose response relationships with measures of the intensity of the exposure, especially when the trend is examined among users only." And you agreed with me that was a true statement back then, correct? A. Yeah, and that is a true statement. If you look at the table by which this comes and that is that is if you just look at if you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. TISI: Objection. THE WITNESS: No, that's not true. The 1999 article with Cramer? BY MR. HEGARTY: Q. Well, let me go back over what you said. A. Well, let me go look at the data. Let me pull up the article. Q. I got to ask my question. MR. TISI: Well, no. You said his article does not show a dose response. He says he wants to look at his table. MR. HEGARTY: Withdraw my withdraw my question. Let me ask another question. MR. TISI: You can't do that. No, you can't do that. MR. HEGARTY: Yes, I can. MR. TISI: You can't do that. MR. HEGARTY: Let me ask a different question.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. No. This part. This page. (Indicates). A. 355? Q. 355. A. Oh, I'm sorry. Yep. I'm here. Q. You wrote: "Most talc and ovarian cancer studies" A. I'm sorry. On which? On which? Q. Lower left-hand corner. A. Okay. Got it. Yep. Q. "Most talc and ovarian cancer studies that have addressed dose response, including this one, have failed to demonstrate consistent dose response relationships with measures of the intensity of the exposure, especially when the trend is examined among users only." And you agreed with me that was a true statement back then, correct? A. Yeah, and that is a true statement. If you look at the table by which this comes and

Page 126	Page 128
1 see that dose response.	1 Q. Dr. Rothman writes in the first
2 But when you start to take into	2 sentence:
3 account the time periods when women were exposed,	
4 excluding times when subsequent to a tubal	4 recall bias, but recall bias is an issue for
5 ligation or a hysterectomy, and then in addition,	5 case-control studies that obtain exposure
6 excluding times when there was not ovulation, you	6 information from subject interviews."
7 see a significant dose response going forward.	7 Do you agree with that statement?
8 Well, you see a dose response. I don't like the	8 A. No, and neither does he because we
9 word "significant," but you can see that it goes	9 specifically talked about the fact that cohort
10 from 1.0 to 1.8.	10 studies can indeed have recall bias in our report.
So there is a dose response when you	11 Q. Did he agree with that statement
12 take into account a refinement of the an	12 when he wrote it back in 2000?
13 appropriate refinement of the exposure.	13 A. I have no idea what what I
14 Q. Please turn back over to Exhibit	14 think I have no idea what he I only know
15 Number 9, Dr. Rothman's November 28, 2000 report.	
16 A. Yep. Yep. I have it.	And I think in his 2000 report, he
17 Q. Please turn over to page 4.	17 was making a general conclusion about cohort
18 A. Uh-huh.	18 studies being designed specifically to look at the
19 Q. In the second full paragraph on the	19 exposure and unexposed, and actually recruiting
20 top, about the middle of that paragraph,	20 participants as as being unexposed or not
21 Dr. Rothman writes	21 exposed and then following them forward in time.
MR. TISI: Give him a chance	So, ideally, you're right. He's
23 to get there.	23 right. They would not suffer from recall bias if
24 THE WITNESS: No, no. I'm	24 you are able to identify them prior to the outcome
Page 127	Page 129
1 fine.	1 of interest and to be able to capture all of the
2 MR. TISI: No, I need to get	2 exposure that occurred over a period of time.
3 you. We all need to get there.	3 Q. Please look at the third line of
4 THE WITNESS: Okay.	4 that same paragraph. Dr. Rothman writes:
5 MR. TISI: He's	5 "Recall bias can readily introduce
6 freight-training you here on this. So	6 enough bias to produce the modestly-sized overall
7 let's get the documents out so you can	7 effect (relative risk equals 1.3) that emerges
8 compare what is said.	8 from these studies."
9 THE WITNESS: Okay.	9 Do you agree with that statement?
10 BY MR. HEGARTY:	10 A. I think it's not a yes or no. I
11 Q. Dr. Rothman writes:	11 think in some situations if there is the if the
12 "Ideally one would wish to have a	12 recall bias is applicable to the exposure being
13 measure of talc dose within the upper reproductive	13 assessed, and I believe there are many studies
14 tract."	14 that and many comments even during the conference
Do you see where I'm reading?	15 in 2000 I mean, in 1994 where Dr. Hartge
16 A. No, I don't. I'm sorry.	16 specifically said those who were exposed to an
17 Q. (Indicates).	17 event in their lifetime that was daily over
18 A. Oh, yeah. Got it. Okay.	18 decades are unlikely to have an issue related to
Q. Do you agree with that statement?	19 recall bias.
	20 Q. Please turn over to page 5 of that
20 A. Well, it's ideally. I don't think	
21 it's feasible or can possibly be done.	21 document.
 21 it's feasible or can possibly be done. 22 Q. Please look at the next section on 	21 document. 22 A. Yes.
21 it's feasible or can possibly be done.	21 document.

Page 130 1 O. Tell me when you're there.	Page 132
1 Q. Tell me when you're there. 2 A. Uh-huh. I'm there.	1 meta-analyses meta-regression analysis, is not
	2 consistent with a causal interpretation for talc
3 Q. Look at the very end of that	3 exposure. Instead it suggests that some as yet
4 section. Dr. Rothman writes:	4 unidentified bias accounts for overall modest
5 "Of course, it remains possible that	5 the overall modest relation between talc exposure
6 yet unidentified risk factors for ovarian cancer	6 and ovarian cancer risk."
7 could be important confounders, and several such	7 First of all, did I read that
8 factors in the aggregate could give rise to an	8 correctly? 9 A. You did.
9 overall association as weak as the one between 10 talc and ovarian cancer."	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	10 Q. Do you agree with those statements
Do you agree with that statement?	11 based on the data that Dr. Rothman reports in this
12 A. I think it's conceivable but not	12 part of this report?
13 likely in this situation because any unmeasured	MR. TISI: Again again, you
14 confounder would have to have preceded the use of	know, in fairness to the witness, you
15 talc, and women have been the women who are	have picked out sentences and skipped
16 greatest risk, in my view, with respect to talc	sentences. If you're going to ask him about about things, let him read
17 have been using it for decades, even as early as	8 /
18 their during during childhood.	let him read the paragraph and he can
So to think of an unmeasured	19 answer your question.20 BY MR. HEGARTY:
20 confounder that would have preceded that are I	
21 don't know what it could possibly be.	 Q. You can answer. MR. TISI: No. He can answer
22 And when people talk about obesity	
23 or hormone replacement therapy, or any of the	when he's had when he feelscomfortable reading it.
24 other things, they would serve and if you were	24 comfortable reading it.
Page 131	Page 133
1 to adjust for them, they would serve as mediators	Do not feel compelled to
2 and would attenuate the relative risk.	2 answer questions about picked-apart
3 Q. Please turn to the next section on	3 sentences.
4 "Dose-response trends."	4 THE WITNESS: Yeah. I'm ready
5 A. Yes.	5 to answer.
6 MR. TISI: When you get to a	6 I do not know what estimates
7 stopping point, we've been going for a	7 he used for calculating these these curves.
8 while. 9 BY MR. HEGARTY:	
	9 The other thing that I don't 10 know is how dose was assessed in his
11 sentence:12 "A nearly constant feature of causal	making of these curves.So I can't really comment on
13 relations in epidemiology and in the pathogenesis	13 that.
14 cancer in particular is a monotonically increasing	14 BY MR. HEGARTY:
15 relation between measures of exposure and disease	15 Q. Please turn next over to the section
16 risk."	16 of "Biologic Mechanism."
Do you agree with that statement?	17 MR. TISI: Wait. Since we're
18 A. I would say in most situations	18 going to a new one, let's take a break.
19 that's what we are looking for.	19 MR. HEGARTY: Okay. Off the
20 Q. Please turn to the next page,	20 record.
21 page 6.	21 (Recess: 11:31 a.m
21 page 6. 22 At the very top, Dr. Rothman writes:	22 (Recess. 11.51 a.m
1 it the very top, Dr. Rouman writes.	
	23 BY MR. HEGARTY:
23 "Thus, the observed pattern, whether 24 based on individual studies or from the combined	23 BY MR. HEGARTY:24 Q. I'll finish with this document.

Page 134	Page 136
1 Please turn to the "Biologic Mechanism" section.	1 is unknown, plausible mechanisms may involve
2 A. Yes.	2 inflammation."
3 Q. Please look towards the bottom of	3 Did I read that correctly?
4 that paragraph.	4 A. You did.
5 First of all, are you familiar with	5 Q. You are not citing in your report
6 this section?	6 that there is let me start over again.
7 A. Yes, I am.	7 You're not claiming in your report
8 Q. Dr. Rothman writes towards the	8 that there is a clear biologic mechanism by which
9 bottom of that section:	9 talc causes ovarian cancer, correct?
10 "Without a clear biologic mechanism	10 MS. PARFITT: Objection.
11 for talc to cause ovarian cancer, an inference	11 MR. TISI: Objection.
12 that talc does cause ovarian cancer would be an	12 Misstates the standard.
	13 THE WITNESS: No, I don't
13 example of a 'black-box' inference, meaning that	
14 the inference lacks a biologic foundation."	believe I'm making I don't believe that is inferred from this statement.
Do you agree with that statement? A. No, I don't, and, in fact,	16 BY MR. HEGARTY:
17 Dr. Rothman cited our 1999 article. And if you go	17 Q. To make it clear because I'm not
18 to read our 1999 article, there was a discussion	18 sure I understand your answer.
19 of the biological plausibility and the fact that	19 You're not saying in your report
20 there was much evidence to suggest that.	20 anywhere that there is a clear biologic mechanism
So I do not know why he made that	21 by which talc causes ovarian cancer, correct?
22 conclusion.	22 A. That
Q. You don't say anywhere in your	MR. TISI: Objection.
24 report that there is a clear biologic mechanism	24 MS. PARFITT: Objection.
Page 135	Page 137
1 for talc to cause ovarian cancer, correct?	1 THE WITNESS: I am stating
2 MR. TISI: Objection.	2 that there are many possible mechanisms
3 THE WITNESS: Well, I don't	3 that could be in play, but we do not know
4 believe that's true.	4 what that exact biological mechanism is.
5 I believe we actually at the	5 BY MR. HEGARTY:
6 under report and I'll tell you where	6 Q. Is it your opinion that there is a
7 it is. Under there is lack of on	7 clear biologic mechanism by which talc causes
8 page 19, there's a section on this.	8 ovarian cancer?
9 There's a lack of evidence	9 MR. TISI: Objection.
regarding the biologic plausibility of	THE WITNESS: I believe there
11 talc. That's the interpretation that	11 is.
others have made, and we specifically	12 BY MR. HEGARTY:
talk about a number of of ways in	Q. What is that clear biologic
which there is a biological plausibility.	14 mechanism and where is that referenced in your
15 It's a short section, but it	15 report?
certainly does not agree with what	16 A. I well, you're asking me if I
Dr. Rothman has indicated in his earlier	17 believe there is a clear biological mechanism, and
18 report.	18 the biological mechanism is summarized by evidence
19 BY MR. HEGARTY:	19 to show transvaginal migration of top particulates
20 Q. Staying with that section in your	20 by the potential for talc particulates to embed in
21 report, at the very end of page 19 before the	21 inclusion cysts that has been shown to be able to
22 "Summary," you state:	22 induce inflammation.
23 "Although the exact pathogenic 24 mechanism by which talc may incur carcinogenesis	23 Those are all plausible biological 24 processes that could explain the carcinogenic or

	Page 138		Page 140
1	underlie the carcinogenic process.	1	"Causation is the most reasonable
2	Q. Are you equating plausibility of		explanation for the association between perineal
3	these mechanisms with clear biologic mechanisms?	3	exposure to talc and ovarian cancer."
4	MS. PARFITT: Objection.	4	As to that opinion, does it apply to
5	THE WITNESS: No. My my	5	all subtypes of ovarian cancer?
6	job as an epidemiologist is to be able to	6	A. We evaluated it based on the
7	show biological plausibility, and I	7	totality of epithelial ovarian cancer.
8	believe that has been effectively shown.	8	Q. Well, does it does that statement
9	BY MR. HEGARTY:	9	apply to mucinous ovarian cancer in talcum powder
10	Q. Well, have you shown in your report	10	
	a clear biologic mechanism for talc to cause	11	A. It was not an analysis specific to
1	ovarian cancer?	12	histologic subtypes. It was based on all
13	MR. TISI: Objection. This is	13	
14	now about the fifth time you've asked the	14	Q. Understood.
15	question.	15	But sitting here today, is it your
16	THE WITNESS: Yeah.	l	opinion that talcum powder use in the genital area
17	MR. TISI: He's talked about	17	causes mucinous adenocarcinoma?
18	plausibility.	18	A. I can't respond to that because
19	Go ahead.	19	there are the studies that are in the
20	THE WITNESS: Well, I've I	20	literature were not designed to specifically
21	don't believe we for even cigarette	21	target, for example, a case-control study of
22	smoking and lung cancer that we can't	22	mucinous ovarian cancer.
23	specifically say what that clear	23	They did a case-control study of
24	pathological mechanism might be, or what	24	epithelial ovarian cancer, and then based on
	Page 139		Page 141
1	the chemical component in the cigarettes	1	however many cases they had of the various
2	are that are specifically inducing the	2	subtypes, they looked at those, but those studies
3	cancer.	3	were not designed specifically to look at the
4	We know, but I believe it's	4	specific risk factors for that particular
5	indisputable that people believe that	5	0 11
6	cigarettes cause cause lung cancer.	6	And I think the approach that's been
			used throughout the literature is to keep
8	Q. Can you then translate that to talc	8	epithelial ovarian tumors lumped together.
9	and ovarian cancer?	9	Q. Understanding that, but is it your
10	A. Yes. I don't believe we know what		opinion that talcum powder use in the genital area
1	the actual clear pathogenic mechanism is, but	11	
	there are multiple possibilities that would make	12	MS. PARFITT: Objection.
1	it a biologically plausible explanation for the	13	THE WITNESS: I believe I
1	association that we see.	14	answered that.
15	MR. HEGARTY: We can take that	15	I believe my statement refers
16	break. Go off the record.	16	to all to epithelial ovarian cancer as
17	MR. TISI: Thank you so much.	17	a whole, knowing that 90 percent of
18	(Recess: 11:37 a.m	18	epithelial ovarian cancers are serous.
19	11:48 a.m.) MR. HEGARTY: We're back on		BY MR. HEGARTY:
20	the record.	20	Q. Is it your opinion that talcum
21	BY MR. HEGARTY:	21 22	powder use in the genital area causes clear cell adenocarcinoma?
22 23	Q. Doctor, looking at page 6 of your	22 23	
1	report, it also has your conclusion that:		A. This was again, my same response is 90 percent of epithelial ovarian tumors are
147	report, it also has your collectusion that.	~4	15 70 percent of epithenal ovalian tumors are

Page 142 Page 144 1 serous, and all the other histologic subtypes are 1 and serous ovarian cancer? 2 much smaller in terms of numbers that are found in 2 No, because the studies, as I 3 indicated before, were not designed to be able to 3 the studies and, therefore, I cannot make that 4 look at those subtypes. And the reason we could 4 kind of conclusion. 5 look at it with serous is because they make up the 5 O. Is it your opinion that genital talc 6 majority of the cases. 6 use in the -- start over again. 7 Without doing that analysis, how can 7 Is it your opinion that talc use in 8 you say in your report that the association is 8 the genital area causes serous adenocarcinoma? 9 stronger and more consistent for the subtype of Given that serous cancer makes up 10 serous ovarian cancer? 10 about 90 percent of the incidents, I would say 11 In other words, wouldn't you have to 11 yes. 12 12 do an analysis between serous and the other Q. In your report in the Executive 13 Summary, second paragraph about four lines down, 13 subtypes to make that statement? Well, others have looked at 14 when you're referring to talc and ovarian cancer 15 you say: 15 specifically the serous tumors and found the 16 association to be more strongly when it's 16 "An association that is stronger and 17 restricted to that particular ones, and it doesn't 17 more consistent for the subtype" --18 necessarily suggest that the others -- that there 18 I'm sorry. I didn't mean to 19 isn't an association with the others. 19 interrupt. Show me where exactly in the Executive 20 20 Summary. I believe it suggests that that 21 particular histologic subtype seems to show an 21 MR. TISI: Do you mind me 22 showing him? 22 association consistently. 23 But to be clear, you did not do a 23 THE WITNESS: "An association 24 separate analysis of comparing the risk ratios or 24 that is stronger." Page 143 Page 145 1 I have it. Thanks. Go ahead. 1 odds ratios between clear cell, endometrioid, and 2 BY MR. HEGARTY: 2 mucinous to serous? Not in my evaluation. Not in this 3 Let me go back to my question. 3 4 In your report, you state in the 4 particular report. Though, in my earlier 5 publications, I have stratified it out. 5 second paragraph as it relates to frequent talc 6 use and ovarian cancer: Does your overall opinion as it "An association that is stronger and 7 relates to epithelial ovarian cancer and talc use 8 more consistent for the subtype of serous ovarian 8 apply to borderline tumors? I think my -- as I recall, my study 9 cancer." 10 in 1999 may have been the few studies to look at 10 First of all, did I read that 11 correctly? 11 borderline ovarian tumors and given that -- yeah 12 So I don't believe that there is --A. Well, you only read part of the 12 13 sentence. 13 besides my article, there haven't been a lot of 14 "The principal finding from the 14 any other studies I'm aware of that are 15 literature is a consistent association between 15 specifically focusing on borderline ovarian 16 frequent talc use and ovarian cancer." 16 tumors. 17 17 That's the first part, and then it Q. Understood, but going back to my 18 says: 18 question. 19 "An association that is stronger and Does your opinion as it relates to 20 more consistent for the subtype of serous ovarian 20 epithelial ovarian cancer and talc use apply to 21 borderline tumors? 21 cancer." 22 Did you do an analysis as it relates A. Yes, I believe it does. 23 to the strength and consistency of the other 23 Q. And did you do any particular 24 subtypes, clear cell, endometrioid, and mucinous, 24 analysis in your report as it relates to

1	Page 146	1	Page 148
	borderline tumors and talcum powder exposure?		cancer that the approach, as an epidemiologist and
2	A. I don't believe we specifically		those who are scientists in that area, are to come
3	stated that in the report.		up with hypotheses and to test them and to see if
4	Q. Is it your opinion that healthy		they might help us identify other factors that we
5	<u>c</u>		can intervene on, and that's why some of those
6			papers that you're citing were done to be able to
7	A. I don't believe I		try to open up new avenues of potential
8	MR. TISI: Objection.		etiological predictors. Because that's what we
9	THE WITNESS: That's not		really need to do to create interventions for this
10	that's a clinical decision. I'm not a		problem.
11	clinician.	11	Q. Regarding your causation opinions on
12	BY MR. HEGARTY:		talc use and epithelial ovarian cancers, do you
13	Q. Is it your opinion that talc used in		have an opinion as to the level of increased risk
l .	the genital area causes vaginal cancer?		the talcum powder use causes?
15	A. I didn't review that literature.	15	MR. TISI: Objection.
16	Q. Same question as to cervical cancer.	16	Incomplete.
17	A. I did not review that literature.	17	THE WITNESS: Well, I've
18	Q. So you don't have an opinion?	18	stated multiple times that I believe the
19	A. I don't have an opinion on that.	19	risk and I believe I said this in my
20	Q. Do you have an opinion one way or	20	view article in 1994 that the risk
21	the other as to talcum powder causes endometria	121	falls somewhere between 1.0 and 1.8 and
22	cancer?	22	that it's quite likely that it falls in
23	A. I don't have an opinion on that.	23	the middle.
24	Q. Do you have an opinion as to whether	24	BY MR. HEGARTY:
	Page 147		Page 149
1	Page 147 talcum powder use causes uterine cancer?	1	Page 149 Q. Is that still your opinion today?
1 2		1 2	-
l	talcum powder use causes uterine cancer?		Q. Is that still your opinion today?
2	talcum powder use causes uterine cancer? A. I didn't do a review of the uterine	2	Q. Is that still your opinion today?A. Yes.
3	talcum powder use causes uterine cancer? A. I didn't do a review of the uterine cancer literature.	2 3	Q. Is that still your opinion today?A. Yes.Q. You
2 3 4 5	talcum powder use causes uterine cancer? A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other	2 3 4 5	Q. Is that still your opinion today?A. Yes.Q. YouA. Overall. Overall.
2 3 4 5	talcum powder use causes uterine cancer? A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other studies reporting positive findings on certain	2 3 4 5 6	 Q. Is that still your opinion today? A. Yes. Q. You A. Overall. Overall. Q. You agree that not everyone then who
2 3 4 5 6 7	talcum powder use causes uterine cancer? A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other studies reporting positive findings on certain exposures and ovarian cancer.	2 3 4 5 6	 Q. Is that still your opinion today? A. Yes. Q. You A. Overall. Overall. Q. You agree that not everyone then who has used talcum powder on the genital area will
2 3 4 5 6 7 8	talcum powder use causes uterine cancer? A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other studies reporting positive findings on certain exposures and ovarian cancer. Is it your opinion that these	2 3 4 5 6 7 8	 Q. Is that still your opinion today? A. Yes. Q. You A. Overall. Overall. Q. You agree that not everyone then who has used talcum powder on the genital area will get ovarian cancer?
2 3 4 5 6 7 8	talcum powder use causes uterine cancer? A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other studies reporting positive findings on certain exposures and ovarian cancer. Is it your opinion that these from these studies that psychotropic medications	2 3 4 5 6 7 8 9	 Q. Is that still your opinion today? A. Yes. Q. You A. Overall. Overall. Q. You agree that not everyone then who has used talcum powder on the genital area will get ovarian cancer? A. Absolutely, just like I believe that
2 3 4 5 6 7 8 9 10	talcum powder use causes uterine cancer? A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other studies reporting positive findings on certain exposures and ovarian cancer. Is it your opinion that these from these studies that psychotropic medications that include antidepressants cause ovarian cancer?	2 3 4 5 6 7 8 9	 Q. Is that still your opinion today? A. Yes. Q. You A. Overall. Overall. Q. You agree that not everyone then who has used talcum powder on the genital area will get ovarian cancer? A. Absolutely, just like I believe that everybody not everybody who smokes cigarettes
2 3 4 5 6 7 8 9 10 11	talcum powder use causes uterine cancer? A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other studies reporting positive findings on certain exposures and ovarian cancer. Is it your opinion that these from these studies that psychotropic medications that include antidepressants cause ovarian cancer? A. I didn't review the literature on	2 3 4 5 6 7 8 9 10 11	 Q. Is that still your opinion today? A. Yes. Q. You A. Overall. Overall. Q. You agree that not everyone then who has used talcum powder on the genital area will get ovarian cancer? A. Absolutely, just like I believe that everybody not everybody who smokes cigarettes will get lung cancer.
2 3 4 5 6 7 8 9 10 11 12	A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other studies reporting positive findings on certain exposures and ovarian cancer. Is it your opinion that these from these studies that psychotropic medications that include antidepressants cause ovarian cancer? A. I didn't review the literature on psychotropic medication and its association with	2 3 4 5 6 7 8 9 10 11 12	 Q. Is that still your opinion today? A. Yes. Q. You A. Overall. Overall. Q. You agree that not everyone then who has used talcum powder on the genital area will get ovarian cancer? A. Absolutely, just like I believe that everybody not everybody who smokes cigarettes will get lung cancer. Q. All women are at some level of risk
2 3 4 5 6 7 8 9 10 11 12 13	talcum powder use causes uterine cancer? A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other studies reporting positive findings on certain exposures and ovarian cancer. Is it your opinion that these from these studies that psychotropic medications that include antidepressants cause ovarian cancer? A. I didn't review the literature on psychotropic medication and its association with ovarian cancer. I we found a particular	2 3 4 5 6 7 8 9 10 11 12	 Q. Is that still your opinion today? A. Yes. Q. You A. Overall. Overall. Q. You agree that not everyone then who has used talcum powder on the genital area will get ovarian cancer? A. Absolutely, just like I believe that everybody not everybody who smokes cigarettes will get lung cancer. Q. All women are at some level of risk of developing ovarian cancer in their life
2 3 4 5 6 7 8 9 10 11 12 13 14	A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other studies reporting positive findings on certain exposures and ovarian cancer. Is it your opinion that these from these studies that psychotropic medications that include antidepressants cause ovarian cancer? A. I didn't review the literature on psychotropic medication and its association with ovarian cancer. I we found a particular association in our own research, but in order for	2 3 4 5 6 7 8 9 10 11 12 13	Q. Is that still your opinion today? A. Yes. Q. You A. Overall. Overall. Q. You agree that not everyone then who has used talcum powder on the genital area will get ovarian cancer? A. Absolutely, just like I believe that everybody not everybody who smokes cigarettes will get lung cancer. Q. All women are at some level of risk of developing ovarian cancer in their life sometime, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other studies reporting positive findings on certain exposures and ovarian cancer. Is it your opinion that these from these studies that psychotropic medications that include antidepressants cause ovarian cancer? A. I didn't review the literature on psychotropic medication and its association with ovarian cancer. I we found a particular association in our own research, but in order for me to have a view on that, I would need to see	2 3 4 5 6 7 8 9 10 11 12 13 14	Q. Is that still your opinion today? A. Yes. Q. You A. Overall. Overall. Q. You agree that not everyone then who has used talcum powder on the genital area will get ovarian cancer? A. Absolutely, just like I believe that everybody not everybody who smokes cigarettes will get lung cancer. Q. All women are at some level of risk of developing ovarian cancer in their life sometime, correct? MS. PARFITT: Objection.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other studies reporting positive findings on certain exposures and ovarian cancer. Is it your opinion that these from these studies that psychotropic medications that include antidepressants cause ovarian cancer? A. I didn't review the literature on psychotropic medication and its association with ovarian cancer. I we found a particular association in our own research, but in order for me to have a view on that, I would need to see what others have done and whether they were able	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 Q. Is that still your opinion today? A. Yes. Q. You A. Overall. Overall. Q. You agree that not everyone then who has used talcum powder on the genital area will get ovarian cancer? A. Absolutely, just like I believe that everybody not everybody who smokes cigarettes will get lung cancer. Q. All women are at some level of risk of developing ovarian cancer in their life sometime, correct? MS. PARFITT: Objection. Form.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other studies reporting positive findings on certain exposures and ovarian cancer. Is it your opinion that these from these studies that psychotropic medications that include antidepressants cause ovarian cancer? A. I didn't review the literature on psychotropic medication and its association with ovarian cancer. I we found a particular association in our own research, but in order for me to have a view on that, I would need to see what others have done and whether they were able to replicate my findings or dispute my findings. Q. Would your answer be the same if I	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Is that still your opinion today? A. Yes. Q. You A. Overall. Overall. Q. You agree that not everyone then who has used talcum powder on the genital area will get ovarian cancer? A. Absolutely, just like I believe that everybody not everybody who smokes cigarettes will get lung cancer. Q. All women are at some level of risk of developing ovarian cancer in their life sometime, correct? MS. PARFITT: Objection. Form. THE WITNESS: All women who
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other studies reporting positive findings on certain exposures and ovarian cancer. Is it your opinion that these from these studies that psychotropic medications that include antidepressants cause ovarian cancer? A. I didn't review the literature on psychotropic medication and its association with ovarian cancer. I we found a particular association in our own research, but in order for me to have a view on that, I would need to see what others have done and whether they were able to replicate my findings or dispute my findings. Q. Would your answer be the same if I ask you about your studies on coffee and caffeine	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Is that still your opinion today? A. Yes. Q. You A. Overall. Overall. Q. You agree that not everyone then who has used talcum powder on the genital area will get ovarian cancer? A. Absolutely, just like I believe that everybody not everybody who smokes cigarettes will get lung cancer. Q. All women are at some level of risk of developing ovarian cancer in their life sometime, correct? MS. PARFITT: Objection. Form. THE WITNESS: All women who have ovaries.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other studies reporting positive findings on certain exposures and ovarian cancer. Is it your opinion that these from these studies that psychotropic medications that include antidepressants cause ovarian cancer? A. I didn't review the literature on psychotropic medication and its association with ovarian cancer. I we found a particular association in our own research, but in order for me to have a view on that, I would need to see what others have done and whether they were able to replicate my findings or dispute my findings. Q. Would your answer be the same if I ask you about your studies on coffee and caffeine	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. Is that still your opinion today? A. Yes. Q. You A. Overall. Overall. Q. You agree that not everyone then who has used talcum powder on the genital area will get ovarian cancer? A. Absolutely, just like I believe that everybody not everybody who smokes cigarettes will get lung cancer. Q. All women are at some level of risk of developing ovarian cancer in their life sometime, correct? MS. PARFITT: Objection. Form. THE WITNESS: All women who have ovaries. BY MR. HEGARTY:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other studies reporting positive findings on certain exposures and ovarian cancer. Is it your opinion that these from these studies that psychotropic medications that include antidepressants cause ovarian cancer? A. I didn't review the literature on psychotropic medication and its association with ovarian cancer. I we found a particular association in our own research, but in order for me to have a view on that, I would need to see what others have done and whether they were able to replicate my findings or dispute my findings. Q. Would your answer be the same if I ask you about your studies on coffee and caffeine and dairy products? A. Yes, my my answer would be the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Is that still your opinion today? A. Yes. Q. You A. Overall. Overall. Q. You agree that not everyone then who has used talcum powder on the genital area will get ovarian cancer? A. Absolutely, just like I believe that everybody not everybody who smokes cigarettes will get lung cancer. Q. All women are at some level of risk of developing ovarian cancer in their life sometime, correct? MS. PARFITT: Objection. Form. THE WITNESS: All women who have ovaries. BY MR. HEGARTY: Q. Women who have been talcum powder
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other studies reporting positive findings on certain exposures and ovarian cancer. Is it your opinion that these from these studies that psychotropic medications that include antidepressants cause ovarian cancer? A. I didn't review the literature on psychotropic medication and its association with ovarian cancer. I we found a particular association in our own research, but in order for me to have a view on that, I would need to see what others have done and whether they were able to replicate my findings or dispute my findings. Q. Would your answer be the same if I ask you about your studies on coffee and caffeine and dairy products? A. Yes, my my answer would be the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Is that still your opinion today? A. Yes. Q. You A. Overall. Overall. Q. You agree that not everyone then who has used talcum powder on the genital area will get ovarian cancer? A. Absolutely, just like I believe that everybody not everybody who smokes cigarettes will get lung cancer. Q. All women are at some level of risk of developing ovarian cancer in their life sometime, correct? MS. PARFITT: Objection. Form. THE WITNESS: All women who have ovaries. BY MR. HEGARTY: Q. Women who have been talcum powder users in the genital area can get ovarian cancer
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other studies reporting positive findings on certain exposures and ovarian cancer. Is it your opinion that these from these studies that psychotropic medications that include antidepressants cause ovarian cancer? A. I didn't review the literature on psychotropic medication and its association with ovarian cancer. I we found a particular association in our own research, but in order for me to have a view on that, I would need to see what others have done and whether they were able to replicate my findings or dispute my findings. Q. Would your answer be the same if I ask you about your studies on coffee and caffeine and dairy products? A. Yes, my my answer would be the same.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Is that still your opinion today? A. Yes. Q. You A. Overall. Overall. Q. You agree that not everyone then who has used talcum powder on the genital area will get ovarian cancer? A. Absolutely, just like I believe that everybody not everybody who smokes cigarettes will get lung cancer. Q. All women are at some level of risk of developing ovarian cancer in their life sometime, correct? MS. PARFITT: Objection. Form. THE WITNESS: All women who have ovaries. BY MR. HEGARTY: Q. Women who have been talcum powder users in the genital area can get ovarian cancer unrelated to their talcum powder use, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. I didn't do a review of the uterine cancer literature. Q. You have been an author on other studies reporting positive findings on certain exposures and ovarian cancer. Is it your opinion that these from these studies that psychotropic medications that include antidepressants cause ovarian cancer? A. I didn't review the literature on psychotropic medication and its association with ovarian cancer. I we found a particular association in our own research, but in order for me to have a view on that, I would need to see what others have done and whether they were able to replicate my findings or dispute my findings. Q. Would your answer be the same if I ask you about your studies on coffee and caffeine and dairy products? A. Yes, my my answer would be the same. And if I if I may?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Is that still your opinion today? A. Yes. Q. You A. Overall. Overall. Q. You agree that not everyone then who has used talcum powder on the genital area will get ovarian cancer? A. Absolutely, just like I believe that everybody not everybody who smokes cigarettes will get lung cancer. Q. All women are at some level of risk of developing ovarian cancer in their life sometime, correct? MS. PARFITT: Objection. Form. THE WITNESS: All women who have ovaries. BY MR. HEGARTY: Q. Women who have been talcum powder users in the genital area can get ovarian cancer unrelated to their talcum powder use, correct? A. Yes, I believe that to be the case.

	Page 150		Page 152
	genital area of women," is it your opinion that	1	wish.
2	there is causation for a woman who has had a	2	THE WITNESS: I do not have
3	single application of talc to the genital area?	3	an opinion that there is a particular
4	A. I think the causation that I've	4	amount of exposure that is necessary to
5	indicated is predicated on exposure for a long	5	put a woman at greater risk of ovarian
6	period of time over decades.	6	cancer, but that the risk increases with
7	Q. Hopefully, that was where I was	7	greater amount of exposure.
8	going to start with that question.	8	BY MR. HEGARTY:
9	What is the necessary exposure level	9	Q. You mentioned earlier that the use
10	of talcum powder use in the genital area to get to	10	has to be decades.
11	your causation opinion?	11	Do you remember telling me that?
12	MR. TISI: Objection.	12	MR. TISI: Objection.
13	Objection	13	THE WITNESS: In my my
14	THE WITNESS: I don't	14	view, that that decades of use would
15	MR. TISI: to form.	15	are certainly those that are at the
16	THE WITNESS: I don't believe	16	highest risk, in my opinion.
17	there is a known dose that needs to be	17	BY MR. HEGARTY:
18	present for there to be a risk, and I	18	Q. When you say "decades of use," how
19	would expect that other factors that are	19	many decades?
20	present that might promote ovarian cancer	20	A. I don't have a particular number,
21	might work with the exposure of talc. We	21	but I don't have a particular number, but
22	just we just don't know.	22	decades implies regular use for a long period of
23	BY MR. HEGARTY:	23	time directly applied to the perineal area.
24	Q. Do you have an opinion, sitting here	24	Q. In fact, in your report, you do talk
	Page 151		Page 153
1	today, as to the necessary frequency and duration	1	about in relation to your opinions that the use
2	of talcum powder use for it to be causal with	2	must be frequent, correct, to be causal?
3	regard to ovarian cancer?	3	A. And where do I state that, please?
4	MR. TISI: Objection to form.	4	Q. Well, you state that well, I can
5	THE WITNESS: No, I don't.	5	ask in a different way.
6	It's quite possible that somebody who	6	Look over to page 20.
7	smokes one or two cigarettes a day can be	7	A. Yes.
8	at risk of lung cancer, just as somebody	8	Q. The second full paragraph that
9	who applies talc only once a week could	9	begins:
10	be at increased risk, but the greatest	10	"It appears to us that the most
11	risk, as in cigarette smoking and lung	11	plausible interpretation of the existing data is
12	cancer, is with the greatest amount of	12	that women exposed to talc for a long period of
13	exposure during vulnerable periods of	13	time are at greater risk of developing ovarian
14	time.	14	cancer than women who were never exposed, as a
15	BY MR. HEGARTY:	15	result of their talc exposure."
16	Q. Understanding you may not have an	16	How do you define for purpose of
17	opinion.	17	your report a long period of time?
18	My question is: Do you have an	18	A. You're asking me to make a
19	opinion, sitting here today, as to whether there	19	dichotomous answer that 20 years is. If somebody
20	is a minimum level of duration and frequency that	20	it's just like it's just like a p-value.
	is necessary for talcum powder use to be causal?	l	Just because it's more than 20 somebody if
22	MR. TISI: Objection. He just	l	you use 20 years as a cut point, then one would
23			infer that, okay, it's okay to use it for 19
24	You may answer it again if you	24	years, and that's just not the case.

	Page 154		Page 156
1	The frequency is more of a linear	1	THE WITNESS: Do I believe
	kind of an assessment, in my view. There isn't a	2	the cause of most ovarian cancers is
	cut point by which you can then define somebody as	3	unknown.
1	saying, It's okay to use it for this number of	4	I would say it is more likely
1	years, but not that number of years. That	5	that the cause of ovarian cancer that
	information is just not known.	6	there are causes of ovarian cancers that
7	Q. My question is a little bit	7	are unknown than that are known.
	different than that.		BY MR. HEGARTY:
9	When you wrote the phrase "A long	9	Q. With regard to risks for ovarian
	period of time," what were you meaning by that		cancer generally, do gene mutation such as BRCA1
	phrase?		or BRCA2 cause ovarian cancer?
12	A. The counterfactual to that the would	12	A. Yes.
	be a short period of time. So not a short period	13	Q. Do the Lynch syndrome genes cause
	of time but a long period of time.	_	ovarian cancer?
15	Q. So when you wrote the phrase "A long	15	A. I believe so.
	period of time," you did not have a particular	16	Q. Does endometriosis cause
	frequency or duration in mind; is that fair?		endometrioid ovarian cancer?
18	A. That I think that's fair, and in	18	A. I'm not sure of that literature.
	the publications that I've authored, we actually	19	Q. Does endometriosis cause clear cell
	use applications as the exposure as opposed to 20		adenocarcinoma?
	years. Because somebody could have used talc for	21	A. I'm not I'm not familiar with
	20 years but only applied it once a week or only	22	that literature.
1	on diaphragms and, therefore, using that kind of	23	Q. Does HRT use hormone replacement
1	frequent frequency in terms of years is not	24	therapy use cause ovarian cancer?
	Page 155		Page 157
1			
1		1	-
	is not accurate.	1 2	A. Again, I didn't review the extent of
1 2 3	is not accurate. Q. And going back to the Executive	_	A. Again, I didn't review the extent of that literature for the purpose of this meeting.
2	is not accurate. Q. And going back to the Executive	2	A. Again, I didn't review the extent of
2 3	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes.	2 3 4	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer?
2 3 4 5	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes. Q. Going back to that phrase we were	2 3 4	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature either.
2 3 4 5 6	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes.	2 3 4 5 6	 A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature
2 3 4 5 6	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes. Q. Going back to that phrase we were talking about with regard to serous ovarian	2 3 4 5 6	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature either. Q. Does polycystic ovarian syndrome cause ovarian cancer?
2 3 4 5 6 7	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes. Q. Going back to that phrase we were talking about with regard to serous ovarian cancer.	2 3 4 5 6 7 8	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature either. Q. Does polycystic ovarian syndrome cause ovarian cancer?
2 3 4 5 6 7 8 9	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes. Q. Going back to that phrase we were talking about with regard to serous ovarian cancer. A. Uh-huh.	2 3 4 5 6 7 8	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature either. Q. Does polycystic ovarian syndrome cause ovarian cancer? A. I have not reviewed those those
2 3 4 5 6 7 8 9	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes. Q. Going back to that phrase we were talking about with regard to serous ovarian cancer. A. Uh-huh. Q. You use a phrase "is a consistent association between frequent talc use and ovarian	2 3 4 5 6 7 8 9	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature either. Q. Does polycystic ovarian syndrome cause ovarian cancer? A. I have not reviewed those those items either.
2 3 4 5 6 7 8 9 10	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes. Q. Going back to that phrase we were talking about with regard to serous ovarian cancer. A. Uh-huh. Q. You use a phrase "is a consistent association between frequent talc use and ovarian	2 3 4 5 6 7 8 9	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature either. Q. Does polycystic ovarian syndrome cause ovarian cancer? A. I have not reviewed those those items either. Q. My questions all included the word
2 3 4 5 6 7 8 9 10 11	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes. Q. Going back to that phrase we were talking about with regard to serous ovarian cancer. A. Uh-huh. Q. You use a phrase "is a consistent association between frequent talc use and ovarian cancer."	2 3 4 5 6 7 8 9 10 11 12	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature either. Q. Does polycystic ovarian syndrome cause ovarian cancer? A. I have not reviewed those those items either. Q. My questions all included the word "cause."
2 3 4 5 6 7 8 9 10 11 12	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes. Q. Going back to that phrase we were talking about with regard to serous ovarian cancer. A. Uh-huh. Q. You use a phrase "is a consistent association between frequent talc use and ovarian cancer." What were you meaning when you said	2 3 4 5 6 7 8 9 10 11 12 13	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature either. Q. Does polycystic ovarian syndrome cause ovarian cancer? A. I have not reviewed those those items either. Q. My questions all included the word "cause." Do you know whether any of those
2 3 4 5 6 7 8 9 10 11 12 13	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes. Q. Going back to that phrase we were talking about with regard to serous ovarian cancer. A. Uh-huh. Q. You use a phrase "is a consistent association between frequent talc use and ovarian cancer." What were you meaning when you said "frequent" in that sentence?	2 3 4 5 6 7 8 9 10 11 12 13	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature either. Q. Does polycystic ovarian syndrome cause ovarian cancer? A. I have not reviewed those those items either. Q. My questions all included the word "cause." Do you know whether any of those subject areas, any of those exposures are risk
2 3 4 5 6 7 8 9 10 11 12 13 14 15	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes. Q. Going back to that phrase we were talking about with regard to serous ovarian cancer. A. Uh-huh. Q. You use a phrase "is a consistent association between frequent talc use and ovarian cancer." What were you meaning when you said "frequent" in that sentence? A. Applications.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature either. Q. Does polycystic ovarian syndrome cause ovarian cancer? A. I have not reviewed those those items either. Q. My questions all included the word "cause." Do you know whether any of those subject areas, any of those exposures are risk factors for ovarian cancer? Can you say that?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes. Q. Going back to that phrase we were talking about with regard to serous ovarian cancer. A. Uh-huh. Q. You use a phrase "is a consistent association between frequent talc use and ovarian cancer." What were you meaning when you said "frequent" in that sentence? A. Applications. Q. Did you have a particular number in	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature either. Q. Does polycystic ovarian syndrome cause ovarian cancer? A. I have not reviewed those those items either. Q. My questions all included the word "cause." Do you know whether any of those subject areas, any of those exposures are risk factors for ovarian cancer? Can you say that? A. Yes, I think that there is evidence.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes. Q. Going back to that phrase we were talking about with regard to serous ovarian cancer. A. Uh-huh. Q. You use a phrase "is a consistent association between frequent talc use and ovarian cancer." What were you meaning when you said "frequent" in that sentence? A. Applications. Q. Did you have a particular number in mind either by week or by month or by total?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature either. Q. Does polycystic ovarian syndrome cause ovarian cancer? A. I have not reviewed those those items either. Q. My questions all included the word "cause." Do you know whether any of those subject areas, any of those exposures are risk factors for ovarian cancer? Can you say that? A. Yes, I think that there is evidence. Certainly there have been studies that have shown
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes. Q. Going back to that phrase we were talking about with regard to serous ovarian cancer. A. Uh-huh. Q. You use a phrase "is a consistent association between frequent talc use and ovarian cancer." What were you meaning when you said "frequent" in that sentence? A. Applications. Q. Did you have a particular number in mind either by week or by month or by total? A. Well, the only number that I can	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature either. Q. Does polycystic ovarian syndrome cause ovarian cancer? A. I have not reviewed those those items either. Q. My questions all included the word "cause." Do you know whether any of those subject areas, any of those exposures are risk factors for ovarian cancer? Can you say that? A. Yes, I think that there is evidence. Certainly there have been studies that have shown that obesity seems to be associated with ovarian
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes. Q. Going back to that phrase we were talking about with regard to serous ovarian cancer. A. Uh-huh. Q. You use a phrase "is a consistent association between frequent talc use and ovarian cancer." What were you meaning when you said "frequent" in that sentence? A. Applications. Q. Did you have a particular number in mind either by week or by month or by total? A. Well, the only number that I can look at is that which was cited in our papers, and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature either. Q. Does polycystic ovarian syndrome cause ovarian cancer? A. I have not reviewed those those items either. Q. My questions all included the word "cause." Do you know whether any of those subject areas, any of those exposures are risk factors for ovarian cancer? Can you say that? A. Yes, I think that there is evidence. Certainly there have been studies that have shown that obesity seems to be associated with ovarian cancer in some studies.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes. Q. Going back to that phrase we were talking about with regard to serous ovarian cancer. A. Uh-huh. Q. You use a phrase "is a consistent association between frequent talc use and ovarian cancer." What were you meaning when you said "frequent" in that sentence? A. Applications. Q. Did you have a particular number in mind either by week or by month or by total? A. Well, the only number that I can look at is that which was cited in our papers, and I believe that was more than 10,000 applications	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature either. Q. Does polycystic ovarian syndrome cause ovarian cancer? A. I have not reviewed those those items either. Q. My questions all included the word "cause." Do you know whether any of those subject areas, any of those exposures are risk factors for ovarian cancer? Can you say that? A. Yes, I think that there is evidence. Certainly there have been studies that have shown that obesity seems to be associated with ovarian cancer in some studies. I don't remember all the other ones
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes. Q. Going back to that phrase we were talking about with regard to serous ovarian cancer. A. Uh-huh. Q. You use a phrase "is a consistent association between frequent talc use and ovarian cancer." What were you meaning when you said "frequent" in that sentence? A. Applications. Q. Did you have a particular number in mind either by week or by month or by total? A. Well, the only number that I can look at is that which was cited in our papers, and I believe that was more than 10,000 applications is where we saw the greatest risk. I believe that to be the case. Q. Do you agree that the cause of most	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature either. Q. Does polycystic ovarian syndrome cause ovarian cancer? A. I have not reviewed those those items either. Q. My questions all included the word "cause." Do you know whether any of those subject areas, any of those exposures are risk factors for ovarian cancer? Can you say that? A. Yes, I think that there is evidence. Certainly there have been studies that have shown that obesity seems to be associated with ovarian cancer in some studies. I don't remember all the other ones that you mentioned. Q. Let me go back over them then. Is endometriosis a risk factor for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes. Q. Going back to that phrase we were talking about with regard to serous ovarian cancer. A. Uh-huh. Q. You use a phrase "is a consistent association between frequent talc use and ovarian cancer." What were you meaning when you said "frequent" in that sentence? A. Applications. Q. Did you have a particular number in mind either by week or by month or by total? A. Well, the only number that I can look at is that which was cited in our papers, and I believe that was more than 10,000 applications is where we saw the greatest risk. I believe that to be the case. Q. Do you agree that the cause of most ovarian cancers is unknown?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature either. Q. Does polycystic ovarian syndrome cause ovarian cancer? A. I have not reviewed those those items either. Q. My questions all included the word "cause." Do you know whether any of those subject areas, any of those exposures are risk factors for ovarian cancer? Can you say that? A. Yes, I think that there is evidence. Certainly there have been studies that have shown that obesity seems to be associated with ovarian cancer in some studies. I don't remember all the other ones that you mentioned. Q. Let me go back over them then. Is endometriosis a risk factor for endometrioid ovarian adenocarcinoma?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	is not accurate. Q. And going back to the Executive Summary section on page 6. A. Yes. Q. Going back to that phrase we were talking about with regard to serous ovarian cancer. A. Uh-huh. Q. You use a phrase "is a consistent association between frequent talc use and ovarian cancer." What were you meaning when you said "frequent" in that sentence? A. Applications. Q. Did you have a particular number in mind either by week or by month or by total? A. Well, the only number that I can look at is that which was cited in our papers, and I believe that was more than 10,000 applications is where we saw the greatest risk. I believe that to be the case. Q. Do you agree that the cause of most	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Again, I didn't review the extent of that literature for the purpose of this meeting. Q. Does obesity cause ovarian cancer? A. I have not reviewed that literature either. Q. Does polycystic ovarian syndrome cause ovarian cancer? A. I have not reviewed those those items either. Q. My questions all included the word "cause." Do you know whether any of those subject areas, any of those exposures are risk factors for ovarian cancer? Can you say that? A. Yes, I think that there is evidence. Certainly there have been studies that have shown that obesity seems to be associated with ovarian cancer in some studies. I don't remember all the other ones that you mentioned. Q. Let me go back over them then. Is endometriosis a risk factor for

	Daga 150		Page 160
1	Page 158	1	factors that are present in a particular
2		2	person and making a qualitative opinion
3		3	as to whether it is more likely than not
4		4	that the ovarian cancer could have been
1	therapy has been shown to be associated with most	5	attributed to one factor versus another.
	of the estrogen-related cancers.	_	BY MR. HEGARTY:
7		7	Q. Do you know of any publication where
	3 risk factor for ovarian cancer?	8	that methodology has been set out?
9		9	MR. TISI: Objection. He's
^	literature.	10	not case-specific person.
11		11	THE WITNESS: I don't believe
	2 for ovarian cancer?	12	I'm aware of that.
13		l	BY MR. HEGARTY:
	has put forward as a potential mechanism by which	14	Q. Do you agree that case-control
	ovarian cancer might occur.		studies are more subject to recall bias than
16	•		cohort studies?
	ovarian cancer, in your opinion?	17	MR. TISI: Objection.
18		18	THE WITNESS: I think
	that literature.	19	correctly done case-control studies and
20		20	correctly done cohort studies are let
	cancer, in your opinion?	21	me rephrase that answer.
22		22	I think it depends on the
	on that literature.	23	particular exposure that's being
24		24	measured. I think that both case-control
	Page 159		Page 161
1	factor for ovarian cancer?	1	studies and cohort studies can be subject
2		2	can be subject to a certain amount of
3		3	recall bias.
4		4	So it really depends on what
5		5	the exposure is that you're looking at
6	Q. Does a family history of breast	6	and how the study was designed.
7	cancer increase the risk of ovarian cancer?	7	BY MR. HEGARTY:
8	A. Yes, it does.	8	Q. With regard to your discussion about
9	Q. Does a woman's risk of ovarian	9	recall bias, did you discuss the Schildkraut
10	cancer go up with age?		paper's analysis of recall bias in its study?
11	A. Yes, as do most cancers.	11	A. In my report?
12	Q. Are you aware of any established	12	Q. In your report, Doctor.
13	3 medical let me start over again.	13	A. (Reviews document.)
		14	In my report, I do not refer to
14	Are you aware of any established	17	
1	Are you aware of any established reliable methodology for determining whether a	l	Schildkraut.
15 16	5 reliable methodology for determining whether a 5 specific patient's use of talc in the genital area	l	Schildkraut. MR. HEGARTY: Let me show you
15 16	reliable methodology for determining whether a	15	
15 16 17 18	reliable methodology for determining whether a specific patient's use of talc in the genital area caused her ovarian cancer? MR. TISI: Objection.	15 16	MR. HEGARTY: Let me show you
15 16 17	reliable methodology for determining whether a specific patient's use of talc in the genital area caused her ovarian cancer? MR. TISI: Objection.	15 16 17	MR. HEGARTY: Let me show you Schildkraut 2016 I marked as Exhibit
15 16 17 18	or reliable methodology for determining whether a specific patient's use of talc in the genital area caused her ovarian cancer? MR. TISI: Objection. THE WITNESS: I don't believe	15 16 17 18	MR. HEGARTY: Let me show you Schildkraut 2016 I marked as Exhibit Number 10.
15 16 17 18 19	reliable methodology for determining whether a specific patient's use of talc in the genital area caused her ovarian cancer? MR. TISI: Objection. THE WITNESS: I don't believe there is any documented checklist, if you may if I may.	15 16 17 18 19	MR. HEGARTY: Let me show you Schildkraut 2016 I marked as Exhibit Number 10. (Document marked for
15 16 17 18 19 20 21 22	reliable methodology for determining whether a specific patient's use of talc in the genital area caused her ovarian cancer? MR. TISI: Objection. THE WITNESS: I don't believe there is any documented checklist, if you may if I may. It's more of a qualitative	15 16 17 18 19 20 21 22	MR. HEGARTY: Let me show you Schildkraut 2016 I marked as Exhibit Number 10. (Document marked for identification as Harlow Exhibit 10.)
15 16 17 18 19 20 21	reliable methodology for determining whether a specific patient's use of talc in the genital area caused her ovarian cancer? MR. TISI: Objection. THE WITNESS: I don't believe there is any documented checklist, if you may if I may. It's more of a qualitative assessment of looking at competing risk	15 16 17 18 19 20 21	MR. HEGARTY: Let me show you Schildkraut 2016 I marked as Exhibit Number 10. (Document marked for identification as Harlow Exhibit 10.) THE WITNESS: Yep.

	Page 162		Page 164
1	Q. In fact, you do cite to it in your	1	-
	expert report, correct?	2	·
3	A. Yes, I do.		to interviews pre-2014, their point estimate was
4	Q. Please turn over to page 412 in this		1.19 with a confidence interval of .87 to 1.63;
5	document.		and their point estimate for post-2014 interviews
6	A. Okay. I just wanted I'm sorry.	l .	was 2.91 with a confidence interval of 1.7 to
7	Page 12?	l	4.97.
8	Q. 412.	8	Correct?
9	A. 412.	9	A. Yeah. I'm just looking to see if
10	MR. TISI: I'm sorry. Did you	l	it's in the tables.
11	say 412? It's 14.	11	Q. It is over in the table over on
12	MR. HEGARTY: 1412. I'm	12	Table 4 Table 2 on page 1414.
13	sorry. 1412.	13	A. Yeah. Oh, there it is. Interview
14	THE WITNESS: Hmm. The	l	date created on '14. Okay.
15	numbers the numbers in mine don't go	15	Q. Are you with me?
16	that way.	16	A. I will be in a second.
17	MR. TISI: Oh, you have a	17	MR. TISI: Take your time and
18	different.	18	· · · · · · · · · · · · · · · · · · ·
19	THE WITNESS: I have a	19	
20	different copy, but that's okay.	20	
21	MR. TISI: I'd like you to	21	Yes, I now see that. Okay.
22	look if you have it.	22	BY MR. HEGARTY:
23	THE WITNESS: Well, let me.	23	Q. The authors found an effect for
24	I'll see. 412?	24	modification by year that was statistically
	Page 163		Page 165
1	MR. TISI: 1412.	1	significant, correct?
2	THE WITNESS: 1412. Okay.	2	A. They found a they found an
3	The "Materials and Method" section.	3	association of of 2.91 for any genital use in
4	BY MR. HEGARTY:	4	those whose interview date was greater than 2014.
5	Q. I'm looking at the "Statistical	5	Q. I understand, but they also did a
6	analysis" section at the very bottom on the	6	statistical analysis between the 1.19
7	right-hand column.	7	A. Oh, right.
8	A. Yep.	8	Q and the 2.91 and found that
9	Q. The authors at the end of the	9	A. Yes.
	right-hand column recognize that lawsuits were	10	Q found the effect by modification
	filed in 2014 regarding the possible carcinogenic	11	by year of interview was statistically
12	effect of of talc and ovarian cancer, and then	12	significant, correct?
	they analyzed the data pre- and post-2014,	13	And if you want to look, it's in the
14	correct?	14	"Results" section.
15	A. Let me just take a read of that. If	15	A. No, no, no. I understand.
	that's okay.	16	Yes, they reported that. They
17	(Reviews document.)	17	reported that. That is correct.
18	Yes, I see that.	18	Q. That analysis indicates that recall
19	Q. Please turn over to the next page	19	bias had an effect based on year of interview,
20	under the "Results" section, left-hand column	20	correct?
	towards the bottom.	21	A. No, it doesn't.
22	A. Uh-huh.	22	Q. How does it not show that?
22 23	Q. Do you see where I'm focusing you	22 23	Q. How does it not show that?A. It doesn't because we don't know
22 23		23	

H	'age	44	ot	252

1	Page 166	4 1	Page 168
	litigation, and we also don't know anything about the dose that these were using in before 2014 or		_
	the dose that those were using in before 2014 or after 2014.		report any powder use. When the time period was
_			limited to women who were interviewed prior to
4	Q. You would not conclude that that		2014, (i.e., before ongoing lawsuits about genital
5	analysis that I just went through is any evidence		powder use which had extensive media coverage),
6	at all of recall bias; is that correct?		the results were attenuated and no longer
7	MR. TISI: Objection.		significant (odds ratios equals 1.19; 95%
8	THE WITNESS: I think it		confidence interval .87 to 1.63). In contrast, a
9	could be explained by a lot of things.		significant positive association was observed
10	And I'm not suggesting that recall bias		among those interviewed after 2014 (odds ratio of
11	doesn't play a role, but I'm certainly		2.91; 95% confidence interval 1.70 to 4.91;
12	not I'm not considering that recall		reference 11). These results highlight the
13	bias is the explanation for it.		potential for recall bias in case-control studies,
	BY MR. HEGARTY:		especially those conducted after 2013."
15	Q. You also cite in your report to the	15	Do you dispute any of the statements
	Davis study; is that correct?		that I just read to you?
17	A. I do.	17	A. I don't dispute any of the
18	MR. TISI: I'm sorry. What		statements, but I want I would like to be
19	was this marked? I apologize.		recognized as saying that recall bias is in
20	MR. HEGARTY: 10.		this situation is based on any use and, therefore,
21	I'm going to mark as Exhibit		those women who perhaps were using it infrequently
22	Number 11 the 2021 Davis study.		might have been more influenced by the knowledge
23	(Document marked for		about litigation than than or not.
24	identification as Harlow Exhibit 11.)	24	I mean, I don't I don't believe
1	Page 167		Page 169
	THE WITNESS: Uh-huh. Thank		let me just say this.
2	you.	2	The recall bias does not take into
3	BY MR. HEGARTY:	3	account those who used it consistently for a long
4	Q. Do you have that in front of you,		period of time. I don't know in this analysis to
	Doctor?		what extent those before 2014 versus those after
6	A. I do.		2014 had varying levels of exposure.
7	MS. PARFITT: Mark, I don't	7	And so you're making there's an
8	know if you have it up there. I have a		assumption being made that the reason for the
9	clarification. Do you have a public		recall bias is because of the knowledge of
10	access one published online for Davis?		litigation, and there's no evidence here to show
11	MR. HEGARTY: Well, it's the		that that is, in fact, the truth.
12	one that I marked as an exhibit.	12	These women were not asked whether
13	MS. PARFITT: I can't see.		or not they knew about the litigation in these
14	MR. HEGARTY: It's published		in these studies.
15	online first June 21, 2021.	15	Q. The authors in the paper we're
16	MS. PARFITT: I didn't see		looking at, the Davis paper, did indicate that
17	that. Thank you.		that could be a possible driver of the difference
	BY MR. HEGARTY:		between the two relative risks; is that correct?
19	Q. Please turn over to page 1665.	19	A. That is well, I don't see it
20	A. Uh-huh.		specifically where they stated it, but I'm not
21	Q. The text begins on that page:		yes to yes, with the restriction of cases in
22	"In AACES, women who ever used		control.
23	genital powder had a 44% higher risk of ovarian		Q. Are you aware of any other
	cancer (odds ratio 1.44; 95% confidence interval	O 4	

Page 170 1 ovarian cancer that stratified results as 1 "errors in the data collected, principally because 2 Schildkraut did by date of interview or otherwise 2 of errors in recollection or reporting of talc 3 to try to assess recall bias? 3 exposure." A. Yes. There was a recent article by 4 That's what you wrote, correct? 5 Goodman, I believe, that looked at -- at a 5 A. That's correct. 6 Q. 6 quantitative bias analysis to see whether or not Turning over to pages 257 and 258, 7 recall bias could influence -- could be explaining 7 starting at the bottom under the section 8 the association that was observed --8 "Recollection of Talc Exposures." 9 9 My question was not a review A. Yes. Q. 10 article. 10 O. Are you with me? 11 A. -- in this study. 11 A. Yes. 12 O. My question was: Are you aware of 12 You wrote there: 13 any case-control or cohort studies that where the 13 "If exposures to talc were recalled 14 authors themselves tried to stratify the results 14 differently by cases and controls, relative risk 15 by interview date or otherwise to assess the 15 estimates would be distorted." 16 potential for recall bias as Schildkraut did? 16 That's a true statement, correct? 17 Off the top of my head, I can't 17 A. That is what I said. 18 remember if there were. 18 Q. That's also true? 19 19 Let's look at your review paper that A. No, it's not necessarily because O. 20 you did with Dr. Hartge. 20 there have been new studies since here that have 21 21 evaluated whether or not there is substantial Is that how you say her name? 22 Hartge. 22 differential or differential misclassification 23 Hartge? 23 by -- in case-control studies showing that it had Q. 24 24 very little effect. Α. Yes. Page 171 Page 173 1 MR. HEGARTY: I'm going to One was done by -- I believe I cited 2 mark this review paper, which is from 2 them in my report. One was done by Sandra 3 1995, as Exhibit 12. 3 Greenland, and another was done by another person, 4 (Document marked for 4 and I believe it was around fetal -- fetal death 5 identification as Harlow Exhibit 12.) 5 syndrome. 6 THE WITNESS: Yes. 6 O. But with regard to the statement 7 BY MR. HEGARTY: 7 we're looking at --Is Exhibit 12 your review paper with 8 Q. 8 Yes. A. 9 Dr. Hartge? Q. -- in a general sense, "if exposures 10 A. It is. 10 to talc were recalled differently by cases and 11 O. Do you have that paper in front of 11 controls, relative risk estimates would be 12 you? 12 distorted." 13 I do. 13 A. That is a correct statement? 14 14 Q. Please turn over to page 256. I guess it would be. I guess it A. 15 A. 15 would be a correct statement. 16 Q. In the section "Limitations and 16 I guess the extent to which it's 17 Biases in Results From Epidemiological Study." 17 distorted -- and, again, this was a correct 18 Do you see that section? 18 statement written in 1994. There has been a lot 19 I do. A. 19 of work that has been done to refine the extent to 20 O. In that section, you make note that 20 which differential misclassification impacts risk 21 the current data on talc use and ovarian cancer is 21 estimates. 22 all from case-control studies. 22 But that statement just standing by O. You say that "their limitations stem 23 itself is a correct statement? 24 from three primary sources." The third being 24 It's what was written in this

Document 33008-56

PageID: 211257

10		10	*
	cancer or underreport it if they were anxious to avoid providing this information."	8 9	1
	•	l	5 1
	correct?	11	the talc effect."
12		l	BY MR. HEGARTY:
	Correct.	13	Q. So what I read was a statement that
14	Q. Is it a true statement?		was pending "forthcoming data from the Nurses
15	A. It's possible because it says		Health Study," correct?
	"could."	16	
17	3	l	is there had never been a cohort study that had
	time you wrote it? A. It's not that I believe it. I am	l	evaluated it, and there was the belief that
19		l	because at this when I wrote this, I didn't
	postulating potential non-causal explanations for associations.		·
$\begin{vmatrix} 21\\22\end{vmatrix}$	Q. You then go on to state in the next	22	collected talc at that point. All we knew was that they were
	paragraph that "recollection bias should not be	l	planning to do an analysis, and certainly we were
	regarded as a likely explanation for the talc		all excited to see what that would find because it
24		24	
1	Page 175 effect."	1	Page 177
		$\frac{1}{2}$	was a cohort study.
$\begin{vmatrix} 2 \\ 2 \end{vmatrix}$,	l	
3 4	"In the nine studies, the questions"? Is it that paragraph?	4	page 1. A. For my? Yes.
4	Q. No. "In the nine studies," the very		A. POLITIV: 168.
5	O. No. III the fille studies, the very		-
5	· · · · · · · · · · · · · · · · · · ·	5	Q. Of your 1995 publication.
6	end of that paragraph.	6	Q. Of your 1995 publication.A. Yes.
6 7	end of that paragraph. You wrote "recollection bias	6 7	Q. Of your 1995 publication.A. Yes.1990 oh, right. 1995. Yes. Got
6 7 8	end of that paragraph. You wrote "recollection bias A. Yes.	6 7 8	Q. Of your 1995 publication. A. Yes. 1990 oh, right. 1995. Yes. Got it.
6 7 8 9	end of that paragraph. You wrote "recollection bias A. Yes. Q should not be regarded as a	6 7 8 9	Q. Of your 1995 publication. A. Yes. 1990 oh, right. 1995. Yes. Got it. Q. If you look in the middle paragraph.
6 7 8 9 10	end of that paragraph. You wrote "recollection bias A. Yes. Q should not be regarded as a likely explanation for this talc effect."	6 7 8 9 10	Q. Of your 1995 publication. A. Yes. 1990 oh, right. 1995. Yes. Got it. Q. If you look in the middle paragraph. A. Wait. Are we talking of the
6 7 8 9 10 11	end of that paragraph. You wrote "recollection bias A. Yes. Q should not be regarded as a likely explanation for this talc effect." A. Yes.	6 7 8 9 10 11	Q. Of your 1995 publication. A. Yes. 1990 oh, right. 1995. Yes. Got it. Q. If you look in the middle paragraph. A. Wait. Are we talking of the abstract or?
6 7 8 9 10 11 12	end of that paragraph. You wrote "recollection bias A. Yes. Q should not be regarded as a likely explanation for this talc effect." A. Yes. Q. Then related to the rest of that	6 7 8 9 10 11 12	Q. Of your 1995 publication. A. Yes. 1990 oh, right. 1995. Yes. Got it. Q. If you look in the middle paragraph. A. Wait. Are we talking of the abstract or? Q. The abstract, yes.
6 7 8 9 10 11 12 13	end of that paragraph. You wrote "recollection bias A. Yes. Q should not be regarded as a likely explanation for this talc effect." A. Yes. Q. Then related to the rest of that paragraph pending the results of "the Nurses	6 7 8 9 10 11 12 13	Q. Of your 1995 publication. A. Yes. 1990 oh, right. 1995. Yes. Got it. Q. If you look in the middle paragraph. A. Wait. Are we talking of the abstract or? Q. The abstract, yes. A. Okay. Yes. Uh-huh.
6 7 8 9 10 11 12 13 14	end of that paragraph. You wrote "recollection bias A. Yes. Q should not be regarded as a likely explanation for this talc effect." A. Yes. Q. Then related to the rest of that paragraph pending the results of "the Nurses Health Study, a prospective cohort analysis,"	6 7 8 9 10 11 12 13 14	Q. Of your 1995 publication. A. Yes. 1990 oh, right. 1995. Yes. Got it. Q. If you look in the middle paragraph. A. Wait. Are we talking of the abstract or? Q. The abstract, yes. A. Okay. Yes. Uh-huh. Q. You do call that the abstract,
6 7 8 9 10 11 12 13 14 15	end of that paragraph. You wrote "recollection bias A. Yes. Q should not be regarded as a likely explanation for this talc effect." A. Yes. Q. Then related to the rest of that paragraph pending the results of "the Nurses Health Study, a prospective cohort analysis," correct?	6 7 8 9 10 11 12 13 14 15	Q. Of your 1995 publication. A. Yes. 1990 oh, right. 1995. Yes. Got it. Q. If you look in the middle paragraph. A. Wait. Are we talking of the abstract or? Q. The abstract, yes. A. Okay. Yes. Uh-huh. Q. You do call that the abstract, right?
6 7 8 9 10 11 12 13 14 15 16	end of that paragraph. You wrote "recollection bias A. Yes. Q should not be regarded as a likely explanation for this talc effect." A. Yes. Q. Then related to the rest of that paragraph pending the results of "the Nurses Health Study, a prospective cohort analysis," correct? MS. PARFITT: Objection.	6 7 8 9 10 11 12 13 14 15 16	Q. Of your 1995 publication. A. Yes. 1990 oh, right. 1995. Yes. Got it. Q. If you look in the middle paragraph. A. Wait. Are we talking of the abstract or? Q. The abstract, yes. A. Okay. Yes. Uh-huh. Q. You do call that the abstract, right? A. Yes, yes, yes, yes. Sorry.
6 7 8 9 10 11 12 13 14 15 16 17	end of that paragraph. You wrote "recollection bias A. Yes. Q should not be regarded as a likely explanation for this talc effect." A. Yes. Q. Then related to the rest of that paragraph pending the results of "the Nurses Health Study, a prospective cohort analysis," correct? MS. PARFITT: Objection. Misstates the article.	6 7 8 9 10 11 12 13 14 15 16 17	Q. Of your 1995 publication. A. Yes. 1990 oh, right. 1995. Yes. Got it. Q. If you look in the middle paragraph. A. Wait. Are we talking of the abstract or? Q. The abstract, yes. A. Okay. Yes. Uh-huh. Q. You do call that the abstract, right? A. Yes, yes, yes, yes. Sorry. Q. Okay. I'm just trying to use the
6 7 8 9 10 11 12 13 14 15 16 17 18	end of that paragraph. You wrote "recollection bias A. Yes. Q should not be regarded as a likely explanation for this talc effect." A. Yes. Q. Then related to the rest of that paragraph pending the results of "the Nurses Health Study, a prospective cohort analysis," correct? MS. PARFITT: Objection. Misstates the article. THE WITNESS: I believe it	6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Of your 1995 publication. A. Yes. 1990 oh, right. 1995. Yes. Got it. Q. If you look in the middle paragraph. A. Wait. Are we talking of the abstract or? Q. The abstract, yes. A. Okay. Yes. Uh-huh. Q. You do call that the abstract, right? A. Yes, yes, yes, yes. Sorry. Q. Okay. I'm just trying to use the term right.
6 7 8 9 10 11 12 13 14 15 16 17 18 19	end of that paragraph. You wrote "recollection bias A. Yes. Q should not be regarded as a likely explanation for this talc effect." A. Yes. Q. Then related to the rest of that paragraph pending the results of "the Nurses Health Study, a prospective cohort analysis," correct? MS. PARFITT: Objection. Misstates the article. THE WITNESS: I believe it says	6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Of your 1995 publication. A. Yes. 1990 oh, right. 1995. Yes. Got it. Q. If you look in the middle paragraph. A. Wait. Are we talking of the abstract or? Q. The abstract, yes. A. Okay. Yes. Uh-huh. Q. You do call that the abstract, right? A. Yes, yes, yes, yes. Sorry. Q. Okay. I'm just trying to use the term right. A. No, no, no. No.
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	end of that paragraph. You wrote "recollection bias A. Yes. Q should not be regarded as a likely explanation for this talc effect." A. Yes. Q. Then related to the rest of that paragraph pending the results of "the Nurses Health Study, a prospective cohort analysis," correct? MS. PARFITT: Objection. Misstates the article. THE WITNESS: I believe it says MR. HEGARTY: Michelle, can we	6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Of your 1995 publication. A. Yes. 1990 oh, right. 1995. Yes. Got it. Q. If you look in the middle paragraph. A. Wait. Are we talking of the abstract or? Q. The abstract, yes. A. Okay. Yes. Uh-huh. Q. You do call that the abstract, right? A. Yes, yes, yes, yes. Sorry. Q. Okay. I'm just trying to use the term right. A. No, no, no. No. Q. You wrote:
6 7 8 9 10 11 12 13 14 15 16 17 18 19	end of that paragraph. You wrote "recollection bias A. Yes. Q should not be regarded as a likely explanation for this talc effect." A. Yes. Q. Then related to the rest of that paragraph pending the results of "the Nurses Health Study, a prospective cohort analysis," correct? MS. PARFITT: Objection. Misstates the article. THE WITNESS: I believe it says MR. HEGARTY: Michelle, can we limit it to one person objecting?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Of your 1995 publication. A. Yes. 1990 oh, right. 1995. Yes. Got it. Q. If you look in the middle paragraph. A. Wait. Are we talking of the abstract or? Q. The abstract, yes. A. Okay. Yes. Uh-huh. Q. You do call that the abstract, right? A. Yes, yes, yes, yes. Sorry. Q. Okay. I'm just trying to use the term right. A. No, no, no. No. Q. You wrote: "The authors conclude that the range
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	end of that paragraph. You wrote "recollection bias A. Yes. Q should not be regarded as a likely explanation for this talc effect." A. Yes. Q. Then related to the rest of that paragraph pending the results of "the Nurses Health Study, a prospective cohort analysis," correct? MS. PARFITT: Objection. Misstates the article. THE WITNESS: I believe it says MR. HEGARTY: Michelle, can we limit it to one person objecting? MS. PARFITT: No, no. That's	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Of your 1995 publication. A. Yes. 1990 oh, right. 1995. Yes. Got it. Q. If you look in the middle paragraph. A. Wait. Are we talking of the abstract or? Q. The abstract, yes. A. Okay. Yes. Uh-huh. Q. You do call that the abstract, right? A. Yes, yes, yes, yes. Sorry. Q. Okay. I'm just trying to use the term right. A. No, no, no. No. Q. You wrote:

	Page 178		Page 180
	investigations are needed."	1	MR. HEGARTY: I'm going to
2	Did I read that correctly?	2	mark as Exhibit 13 the 2000 Gertig study.
3	A. You did.	3	(Document marked for
4	Q. Do you stand behind what you said	4	identification as Harlow Exhibit 13.)
5	back then?	5	BY MR. HEGARTY:
6	A. I do, with the caveat that they are	6	Q. Are you familiar with that study?
	prospective studies that are specifically designed		A. I am.
	to look at this particular exposure.	8	Q. One of the authors was your was
9	Q. Back in 1995 when you wrote this,		also a plaintiffs' expert, as you are, and one of
	you wrote that prospective investigations are		your prior colleagues, Dr. Daniel Cramer, correct?
	needed to assess this relative risk of 1.0 to 1.8,	11	MR. TISI: Objection.
	correct?	12	THE WITNESS: Well
13	A. Yes.	13	MR. TISI: Objection. He was
14	Q. You made that statement in part	14	not an expert at this time.
	because of concern about recall bias, correct?	15	Go ahead.
16	MR. TISI: Objection.	16	THE WITNESS: Yeah, I have no
17	THE WITNESS: Well, that's not	17	idea what his subject
18	the that's not the only reason.	18	MR. TISI: Objection to the
19	If if we have the	19	preamble.
20	opportunity to look at incidence as	20	THE WITNESS: Yeah.
21	opposed to estimating to actually	21	MR. TISI: Just ask the
22	calculate incidence and incidence rate	22	question, counsel.
23	ratios as opposed to estimating the rate	23	THE WITNESS: Yeah. Yes,
24	ratio with odds ratios, we always want to	24	Dr. Cramer is an author on this paper.
	Page 179		Page 181
1	be able to do that under the assumption		BY MR. HEGARTY:
2	that the study is designed appropriately.	2	Q. Looking at the abstract.
	BY MR. HEGARTY:	3	A. Yes.
4	Q. Understand, but my question was	4	Q. About two-thirds down, that study
	limited to that you made that statement at least		reported or says:
	in part because of the concern for recall bias,	6	"We observed no overall association
	correct?		with ever use with ever talc use and epithelial
8	MR. TISI: Objection. Asked		ovarian cancer (multivariate relative risk 1.09;
9	and answered.		95% confidence interval 0.86 to 1.37) and no
10	THE WITNESS: Yeah. For a		increase in risk of ovarian cancer with increasing
11	number of reasons, recall bias could be		frequency of use."
12	one of many reasons, and particularly for	12	Correct?
13	those who are more subject to recall bias	13	MR. TISI: Objection.
14	such as less frequent exposure.	14	THE WITNESS: That's what
15	MR. HEGARTY: Let's go off the	15	they state.
16	record for a second.		BY MR. HEGARTY:
17	(Recess: 12:30 p.m	17	Q. Okay. Turn over to page
18	12:31 p.m.)	18	MR. TISI: Feel free to read
19	BY MR. HEGARTY:	19	the entire thing.
20	Q. The study that you reference, that	20	THE WITNESS: No. I know this
	being the Nurses' Health Study, was ultimately	21	article very well.
	published in what we call the 2000 Gertig study;		MR. TISI: Okay.
23	is that right?		BY MR. HEGARTY: Q. Please turn over to page 251.
24	THE WITNESS: That's correct.	24	Q. Please turn over to page 251.

Page 182	Page 184
1 A. Yes.	1 of just this study that there is an association
2 Q. Under the section "Discussion."	2 between talc use and epithelial ovarian cancer
3 A. Yes.	3 MR. TISI: Objection.
4 Q. First paragraph, second sentence,	4 BY MR. HEGARTY:
5 the authors write:	5 Q correct?
6 "Because we ascertained talc	6 MR. TISI: Objection.
7 exposure prior to case diagnosis, the possibility	7 Misstates testimony. Asked and answered.
8 for recall bias, which has been raised as a	8 THE WITNESS: Well, actually,
9 potential explanation for previous positive	9 once they limited it to those who had not
10 findings in case-control studies, is eliminated,	had a tubal ligation or hysterectomy, the
11 and selection bias is reduced."	overall association was 1.15 with a
12 That was a correct statement,	12 confidence interval of 0.9 to 1.5.
13 correct?	13 BY MR. HEGARTY:
14 A. No, I don't necessarily believe that	14 Q. With regard to that answer, staying
15 it was completely eliminated. The Nurses' Health	15 with page 251.
16 Study was not designed specifically to look at	16 A. Yes.
17 women they were not enrolled into the study	17 Q. Right-hand column, middle paragraph.
18 based on exposed or not exposed to talc and,	18 A. Yes.
19 therefore, all women in that study were required	19 Q. The authors write:
20 to recall their talc exposure.	20 "The potential effect of talc on the
21 Q. You said you're familiar with this	21 ovaries depends on migration of talc fibers
22 study?	22 through a patent genital tract, and we would,
23 A. Yes.	23 therefore, expect a stronger association among
24 Q. You cannot conclude just by this	24 women without a tubal ligation who had used talc.
Page 183	Page 185
1 study that there is an association between talc	1 However, no effect modification was seen by
2 use and ovarian cancer, correct?	2 history of tubal ligation."
3 MR. TISI: Objection.	That's what they concluded, correct?
4 THE WITNESS: No, that's	4 A. Well, then it goes on to say:
5 not that's not true at all.	5 "Because we did not have the date of
6 Because as I stated, as I	6 tubal ligation, some women may have begun talc use
7 stated in my report, that they also	7 only after tubal ligation, potentially resulting
8 reported an estimated risk ratio of 1.4	8 in misclassification of talc use and attenuation
9 for evasive serous ovarian tumors, which	9 of the relative risks."
we know account for the large majority of	10 Q. But ultimately in their study, as
ovarian cancer; and that when the	11 they report here, when comparing women with tubal
12 analysis was restricted to women who are	12 ligation and without tubal ligation, they found no
13 45 years of age or older in 1992, they	13 statistically different results, correct?
might represent those who are more highly	14 MR. TISI: Objection.
exposed and maybe possibly have something	
to do with asbestos contamination, the	16 not find a statistically significant
association was was present.	difference, but it doesn't but that
18 BY MR. HEGARTY:	doesn't take into account the amount of
19 Q. My question was limited to ovarian	19 exposure that they had prior to or after
20 cancer. So let me restate it.	20 the tubal ligation.
21 You cannot conclude on this study	21 So it's it doesn't if
22 that there is an association let me start over	you're getting at whether if you're
23 again.	23 getting at the issue of patency, it
You cannot conclude from the results	24 doesn't adequately assess that.

Page 188 Page 186 1 BY MR. HEGARTY: 1 But just because the -- the odd --2 Look back again at the abstract. 2 just because the 95 percent confidence interval Q. 3 A. 3 includes 1 does not preclude that the association Particularly the part that I read to 4 is going to be 1 or less. It all really depends Q. 5 you that begins "We observed no overall 5 on the -- on the -- on the width of the confidence 6 association." 6 interval to get a better sense of where the 7 Do you remember that part I read? 7 estimate likely falls. Please turn over to page 18 of your 8 Yes. Yes. 8 Q. Α. 9 Is it your opinion that this study 9 expert report. Q. 10 does show an overall association with ever talc 18 of my expert report. 10 A. 11 use and epithelial ovarian cancer? What we marked as Exhibit Number 5 11 0. It all depends on how you define an 12 12 A. 13 association. There is an elevated risk. It has a 13 Q. At the end of that carryover 14 confidence interval that does include 1. 14 paragraph just before the "Case-control studies 15 O. Understood. 15 are inferior to cohort study" section. Are you with me? 16 My question, though, is: Is it your 16 17 opinion that this study does show an association 17 Yeah. Let me just see. This is A. 18 with ever talc use and epithelial ovarian cancer? 18 recall bias. Uh-huh. 19 I would say, yes, it does when you 19 O. It is in the recall bias section, 20 take into account the refinement of the exposure 20 correct? 21 assessment. 21 A. Yes, uh-huh. Uh-huh. 22 So in your opinion, the statement 22 Q. You say at the end of that section: 23 they make, "We observed no overall association 23 "In our opinion, daily use of talc 24 with ever talc use and epithelial ovarian cancer," 24 over long periods or decades is unlikely to be Page 187 Page 189 1 is not correct? 1 recalled inaccurately." 2 MR. TISI: Objection. 2 Do you see where I'm reading? 3 THE WITNESS: It's not a yes 3 Actually, hold on a second. 4 or no type of response. It's how one 4 (Reviews document.) 5 might interpret it. 5 Yes. Okay. "In our opinion." Yes. 6 They interpreted it as showing 6 Go ahead. 7 no association based on a statistical cut Is it your opinion that reporting of 8 point. 8 two times a week is also unlikely to be recalled 9 My view is to look at the 9 inaccurately? 10 entire body of the article to try to get 10 A. Again, you're trying to make a 11 a sense of whether or not there is an 11 dichotomy here. 12 association under the appropriate exposed Certainly daily use of talc over 13 situations. 13 long periods of time is not likely to be recalled 14 BY MR. HEGARTY: 14 inaccurately. For purposes of your report and your 15 I cannot speak to one -- to once a 16 testimony in this case, how are you defining the 16 week or -- or once a month, but certainly the 17 phrase "an association"? What's your definition? 17 amount of recall bias, in my view, would increase 18 An association in my -- would be my 18 with the -- with a decrease in frequency of using 19 definition that shows that the risk estimate is 19 it. 20 more likely to be positive than not. 20 Have you spoken with any of your 21 When the odds -- when the odds ratio 21 colleagues at Boston University about your work on 22 or relative risk does not include 1, then there is 22 this litigation? 23 a much more certainty that the true association is 23 A. 24 greater than 1. 24 Q. Have you told any of your colleagues

Document 33008-56

PageID: 211261

Page 190	Page 192
1 at Boston University your opinions in this	1 organizations or societies about your opinions in
2 litigation as set out in your report?	2 this case?
3 A. No, I have not.	3 A. I have not.
4 Q. Have you gone over to talk to any of	4 Q. Have you shared your opinions in
5 the gynecologists and gynecologic oncologists at	5 your report as to tale and ovarian cancer in any
6 the Boston University Chobanian & Avedisian	6 written peer-reviewed publication?
7 A. (Laugh). Avedisian.	7 MR. TISI: Objection.
8 Q Medical School of your opinions	8 THE WITNESS: Yeah. I don't
9 in your report?	9 believe I have.
10 A. No, I have not.	10 BY MR. HEGARTY:
11 Q. Have you talked to anyone at the	11 Q. Have you shared your opinions set
12 Boston University BMC Cancer Center about your	12 out in your report at any symposia or conference?
13 opinions in this report?	13 A. No.
14 A. No, I have not.	14 Q. And as I mentioned just a moment
15 Q. Have you told	15 ago, your report has not been peer-reviewed,
16 MR. TISI: I assume other than	16 correct?
17 Dr. Rothman, right?	17 A. That is correct.
18 MR. HEGARTY: Well, I'll let	18 Q. Has any medical society or
19 him answer.	19 organization reached out to you about talc and
20 MR. TISI: Well, I mean, I'm	20 ovarian cancer?
21 assuming that that's	21 A. No.
22 BY MR. HEGARTY:	22 Q. Can you cite to any U.S. scientific
23 Q. Well, Dr. Rothman, is he at the BU	23 or medical group, entity, or organization who has
24 BMC Cancer Center?	24 made the statement that talc use can cause ovarian
Page 191	Page 193
1 A. No. He's in the School of Public	1 cancer?
2 Health with me.	2 MR. TISI: Objection. 3 THE WITNESS: I am not aware
3 MR. HEGARTY: My question was	
4 very specific. I said Boston University5 BMC Cancer Center.	,
6 MR. TISI: Okay. Yeah. Got	
7 it. Yeah.	7 of.
8 BY MR. HEGARTY:	8 BY MR. HEGARTY:
9 Q. Have you told any doctor treating	9 Q. Are you aware of any gynecologic
10 patients for ovarian cancer about your opinions in	10 oncologist, outside of any witness hired by the
11 this litigation?	11 plaintiffs in this litigation, who has stated that
12 A. I have not.	12 talc use can cause ovarian cancer?
13 Q. Have you communicated with anyone	13 A. I wouldn't be able. I would have no 14 idea.
14 outside of plaintiffs' lawyers and Dr. Rothman	
15 about your opinions in this case?16 A. No.	15 Q. Have you discussed your report or 16 your opinions in this case with any other experts
	17 retained by plaintiffs' counsel in this
17 Q. Have you talked to any scientific	
18 body or group about your opinions in your report?	18 litigation 19 A. As I
19 A. No.	
20 Q. Has any regulatory authority or	
21 scientific body reached out to you about your	,
22 opinions in the last 30 years? 23 A. No.	22 Q. Your list of Materials Considered 23 includes a reference to Dr. Longo's and Rigler's
	24 February 2019 expert report.
24 Q. Have you contacted any medical	27 1 cordary 2017 expert report.

		Page 194		Page 196
1		Do you recall that?	1	Q. Did you note when you read it the
2	A.	Yes, I do.	l	disclosure or declaration of conflict of interest
3	Q.	You also cite in your report to a	l	at the bottom of the first page?
4	_	sorry to a to a study or article	4	A. No, I didn't.
5		en from 2020.	5	Q. If you look at the bottom on the
6	-	Do you recall that article?	l	left-hand side, do you see where it says as it
7	A.	Where do I cite that?		relates to certain of the authors, including
8	Q.	You include it in your references in		Dr. Egilman well, let me start over again.
9	_	and you cite to it in your report.	9	As it relates to Dr. Egilman, that
10		Do you see that?	10	he serves as an expert witness in litigation at
11	A.	Oh. Oh, right. Yes. Yes, yes,	11	the request of people who are injured as a result
12	yes.	•	12	of using talcum powder?
13	Q.	Particularly in your report on	13	A. Right.
14	page 9.		14	Q. Have you seen that before right now?
15	A.	Yeah, yeah, Yes.	15	A. Yeah. Right. Yes.
16		I'm just looking where I cited it.	16	Q. Had you seen that before right now?
17	Yes.		17	A. Oh, I probably saw it, but I don't
18		MR. HEGARTY: And just so you	18	necessarily evaluate literature based on based
19	can	familiarize yourself with what I'm	19	on this.
20	aski	ng you, I'll mark as Exhibit 14 the	20	Q. Do you see just below that part
21	Stef	fen article.	21	where it says:
22		(Document marked for	22	"Dr. Egilman, Dr. Rigler and
23		tification as Harlow Exhibit 14.)	23	Dr. Longo report payments from lawyers
24	BY MR.	HEGARTY:	24	A. Yes, I see it.
		Page 195		Page 197
1	Q.	That's the article	1	Q related to the submitted work"?
2	A.	Yeah.	2	A. Yes, I see it.
3	Q.	you reference in your report,	3	Q. Did you consider that funding
4	correct?		l	statement in evaluating this paper?
5	Α.	Just trying to see where I reference	5	A. No, I didn't.
6	this artic		6	Q. Is it appropriate when you consider
17		Please look over on page 9 in	1	a paper like this to consider the source of
		e 7 at the top.		funding and whether they're the authors are
9	Α.	Do I have it as reference 9 on my		expert witnesses in litigation?
1		let me just take a second. Hold on. Is	10	A. I think it is important to consider
	it 7 or is		l	it as one consideration, but I believe in this
12	Q.	I'm looking at page 9 at the top.	l	situation where where basically they are doing
13	A.	Oh, yeah. It's 7. Oh, yeah. Okay.		a laboratory assessment, I'm less concerned about
		Got it. Yes. And reference 7 is Steffen's?		whether or not that would have influenced the
15	Q.		l	fundings.
16	A.	Yes. Yes, yes, yes.	16	Q. The only authorities that you cite
17	Q.	And I'm Pight Right right Cot		for the statements in your report that talcum
18 19	A.	Right. Right, right. Got	1	powder contains asbestos are Dr. Longo and
20		I marked as Exhibit Number 14 the		Rigler's report and the Steffen's article,
	Q. Steffen's	I marked as Exhibit Number 14 the		correct?
$\begin{vmatrix} 21\\22\end{vmatrix}$	A.	Yes.	21 22	MR. TISI: Objection. THE WITNESS: Well it's in my
	A. Q.	Did you read this article?	23	THE WITNESS: Well, it's in my report, but in all my writings that I've
122		Dia you read this article:	∟∠ <i>⊃</i>	TODOIL DULIN AN INV WHITINGS HIGH I VE
23 24	A.	Yes.	24	published, I've I've referenced many

D 109	D 200
Page 198 1 other articles.	Page 200 MR. HEGARTY: But let's not
2 BY MR. HEGARTY:	2 get into discussion.
3 Q. And I'm not asking about your other	3 MR. TISI: Okay.
4 writings.	4 BY MR. HEGARTY:
5 A. I understand that.	5 Q. How much time? Do you need more
6 Q. My question is specific	6 time?
7 specifically limited to your report.	7 A. I would need more time to look
8 In your report	8 specifically at every word that I wrote to see if
9 A. Yes.	9 there are other locations other places where I
10 Q the only authorities that you	10 cited the issue of talc the issue of asbestos
11 cite to for your statements that talcum powder,	11 being seen in talc examples.
12 including Johnson & Johnson talcum powder,	12 Q. And if we have time, we can go back
13 contains asbestos are the Rigler and Longo	13 to this question.
14 materials and the Steffen's article, correct?	14 A. Okay.
MR. TISI: Objection.	15 Q. With regard to your citation to the
16 Misstates.	16 report by Dr. Longo and Rigler, did you read the
17 THE WITNESS: So I would have	17 entirety of that report?
to look. In this particular paragraph,	18 A. I would hope I read the most salient
but there might be other locations in the	19 components of it. (Laugh).
20 report where I had referred to that, and	Q. Well, can you tell me today
21 I would have to look carefully about	21 A. Yeah.
22 that.	22 Q if you read the entirety of it
23 BY MR. HEGARTY:	23 from page to page?
Q. How long would that take you to	24 A. Yes.
Page 199	Page 201
1 look?	1 Q. As to Dr. Longo and Rigler's report,
2 A. Just give me a minute. Let me see	2 did you make a request for that report or was tha
3 if they're listed, if I had things.	3 sent to you?
4 Okay. I'll I'll agree	4 A. That was sent to me.
5 that that's these are the this is the	5 Q. Are you aware that there are more
6 report.	6 there are other experts who have issued reports
7 MR. TISI: Objection.	7 and who have testified with regard to the testing
8 THE WITNESS: This is the	8 of talcum powder for asbestos?
9 evidence.	9 MR. TISI: In the MDL and New
MR. TISI: Actually all	Jersey, or no?
right. I don't want you to feel rushed.	11 BY MR. HEGARTY:
Okay? If you need to look, I mean, there	12 Q. We'll limit it to the MDL and New
is fine. I'll clean it up.	13 Jersey cases.
14 THE WITNESS: No, that's	14 A. Yeah. No, I'm not aware of that.
15 fine.	15 Except that I'm aware of articles in the
16 MR. TISI: I mean, you know	16 scientific literature that have been published
that that's	17 that have shown the contamination of talc with
MR. HEGARTY: You can ask that	18 asbestos in each decade for the last 40 years.
19 question.	Q. Did you ask or make a request for
20 MR. TISI: You know that	20 defense expert reports addressing the issues of
01 41-41-5-44 37 6	Lite apparence tacting for tale and apparence in tale?
21 that's not true. You can't	21 asbestos testing for talc and asbestos in talc?
22 MR. HEGARTY: I don't know	MR. TISI: Objection. In the

	Page 202		Page 204
1	MR. HEGARTY: Or anywhere in	1	extent that there's been any reports by
2	any situation.	2	the defendant in this litigation.
3	MR. TISI: Well, there have		BY MR. HEGARTY:
4	been none in any case in which he's been	4	Q. You can answer.
5	involved. So until you name them, you	5	MR. TISI: You can answer.
6	can't expect him to know them.	6	THE WITNESS: No, I have not.
7	MR. HEGARTY: I didn't ask him		BY MR. HEGARTY:
8	that. I just asked him	8	Q. As to Dr. Longo's report, it was not
9	MR. TISI: Well, no. I mean,		a peer-reviewed document, correct?
10	come on.	10	A. I'm not sure whether it was
11	MR. HEGARTY: Chris, listen to		
12		12	peer-reviewed or not.
13	my question. I'll ask the question		Q. Do you have you ever met
14	again. MR. TISI: That's totally		Dr. Longo or Dr. Rigler? A. No.
	unfair.	14	
15		15	Q. Do you know anything about their
16	MR. HEGARTY: Listen to my	l .	training, education, and experience?
17	question.	17	A. I do not.
		18	Q. Do you know how much money Dr. Longo
19	Q. My question is: Did you ask for any	l .	has made testifying for plaintiffs in talcum
	expert reports that have been issued from	l	powder litigation?
	attorney from experts representing or	21	A. I do not.
	testifying on behalf of Johnson & Johnson that	22	Q. Is that something you're interested
	respond or address the issues of asbestos in talc	l .	in knowing?
24	in particular as it relates to testing of talc for	24	A. No.
	Page 203		Page 205
1	asbestos?	1	Q. Do you know how many times that
2	MR. TISI: Your question		Dr. Longo has testified for plaintiffs that
3	assumes facts not in evidence in this MDL	l .	products contain asbestos, that is, talcum powder
4	or in New Jersey. So I object.	4	products contain asbestos based on his testing?
5	BY MR. HEGARTY:	5	A. No, I do not know. I do not know.
6	Q. You can answer.	6	Q. Have you ever visited Dr. Longo's
7	A. I would not have known whether those	7	labs?
8	existed or not. So I would not have known to ask.	8	A. No.
9	Q. If such reports and testimony exist,	9	Q. Is it true, Doctor, that you're not
10	are you interested in reviewing them?	10	knowledgeable about let me start over again.
11	A. Yes.	11	It is true, Doctor, that you are not
12	MR. TISI: When they become	12	knowledgeable about the reasonableness of the
13	available.	l .	processes and procedures of any of the tests that
1	BY MR. HEGARTY:		Dr. Longo and Rigler conducted on any talc
15	Q. Have you reviewed Dr. Longo or		product, correct?
	Dr. Rigler's testimony in any case involving	16	A. I do not know what their parameters
10			were in their laboratory testing.
1		17	
17	talcum powder and either ovarian cancer or	l .	O. You have no
17 18	talcum powder and either ovarian cancer or mesothelioma?	18	Q. You have no A. Other than what was written in the
17 18 19	talcum powder and either ovarian cancer or mesothelioma? A. No.	18 19	A. Other than what was written in the
17 18 19 20	talcum powder and either ovarian cancer or mesothelioma? A. No. Q. Do you agree that you have not done	18 19 20	A. Other than what was written in the document.
17 18 19 20 21	talcum powder and either ovarian cancer or mesothelioma? A. No. Q. Do you agree that you have not done a comprehensive analysis of all the expert reports	18 19 20 21	A. Other than what was written in the document. Q. Besides what you read, you have no
17 18 19 20 21 22	talcum powder and either ovarian cancer or mesothelioma? A. No. Q. Do you agree that you have not done a comprehensive analysis of all the expert reports and expert witness testimony on the issue of	18 19 20 21 22	A. Other than what was written in the document. Q. Besides what you read, you have no ability to say that Dr. Longo's methods in looking
17 18 19 20 21 22	talcum powder and either ovarian cancer or mesothelioma? A. No. Q. Do you agree that you have not done a comprehensive analysis of all the expert reports	18 19 20 21 22 23	A. Other than what was written in the document. Q. Besides what you read, you have no

	Page 206		Page 208
1	A. Actually, reliable means that it is	1	So, and talc itself has been shown to cause an
2	means it's been shown over and over again.	2	inflammatory process.
3	That's what reliability means, and the fact that	3	
	there have been a number of articles in the	4	
5	scientific literature by well before any of the	5	·
	litigation began showing that there is the	6	
	potential for asbestos contamination, to me that	7	•
8	suggests that the work that's done by Longo is	8	-
	is reliable.	9	
10	Q. Do you know what a cleavage fragment	10	in talc as relate to your causation opinions?
11	is?	11	A. No. For one thing, you just don't
12	A. No.	12	know.
13	Q. Can tremolite come in an asbestiform	13	Q. There are six plaintiffs whose cases
14	and non-asbestiform mineral type?	14	we are working up in the MDL and two plaintiffs in
15	A. I am not an expert in that area.		the in the New Jersey litigation.
16	Q. You're not an expert in asbestos?	16	
17	A. I would not call I am an expert	17	me after I'm finished whether you know any of
18	in reviewing epidemiologic research, and I have		these women.
1	the ability to look at research that has been in	19	Lynda Bondurant, Escalina Roussa,
1	the peer-reviewed literature and make conclusions	20	Hilary Converse, Carter Judkins, Tamara Newsome,
	as to whether I believe they are scientifically		Anna Gallardo. And I'm not sure of the first
	strong or not.	22	names. I can look them up. Ms. Karl and
23	Q. Do you have an opinion as to whether		Ms. Moldurano.
24	non-asbestiform tremolite can cause ovarian	24	Are any of those names familiar to
	D 405		
	Page 207		Page 209
1	Page 207 cancer?	1	Page 209 you?
1 2		1 2	you?
	cancer?		you? A. Not that I'm aware of, no.
2	cancer? A. I don't have an opinion.	2	you? A. Not that I'm aware of, no. Q. Do you have any information about
3	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the	2 3	you? A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of
3 4	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the six types of asbestos?	2 3 4	you? A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of ovarian cancer that they have?
2 3 4 5	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the six types of asbestos? A. No.	2 3 4 5	you? A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of ovarian cancer that they have? A. No.
2 3 4 5 6 7	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the six types of asbestos? A. No. Q. Do you know the most common the	2 3 4 5 6	you? A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of ovarian cancer that they have? A. No. Q. Do you know where they live?
2 3 4 5 6 7	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the six types of asbestos? A. No. Q. Do you know the most common the most commonest asbestos that was used	2 3 4 5 6 7	you? A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of ovarian cancer that they have? A. No. Q. Do you know where they live? A. No.
2 3 4 5 6 7 8 9	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the six types of asbestos? A. No. Q. Do you know the most common the most commonest asbestos that was used commercially?	2 3 4 5 6 7 8 9	you? A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of ovarian cancer that they have? A. No. Q. Do you know where they live? A. No.
2 3 4 5 6 7 8 9	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the six types of asbestos? A. No. Q. Do you know the most common the most commonest asbestos that was used commercially? A. That's not where I spend my time	2 3 4 5 6 7 8 9 10	A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of ovarian cancer that they have? A. No. Q. Do you know where they live? A. No. Q. Do you know do you have any
2 3 4 5 6 7 8 9 10	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the six types of asbestos? A. No. Q. Do you know the most common the most commonest asbestos that was used commercially? A. That's not where I spend my time reviewing the scientific literature.	2 3 4 5 6 7 8 9 10 11	A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of ovarian cancer that they have? A. No. Q. Do you know where they live? A. No. Q. Do you know do you have any knowledge of any of the women whose names I just mentioned use of talcum powder?
2 3 4 5 6 7 8 9 10 11 12	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the six types of asbestos? A. No. Q. Do you know the most common the most commonest asbestos that was used commercially? A. That's not where I spend my time reviewing the scientific literature. The whole idea behind my review of	2 3 4 5 6 7 8 9 10 11 12	you? A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of ovarian cancer that they have? A. No. Q. Do you know where they live? A. No. Q. Do you know do you have any knowledge of any of the women whose names I just mentioned use of talcum powder? A. No.
2 3 4 5 6 7 8 9 10 11 12 13	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the six types of asbestos? A. No. Q. Do you know the most common the most commonest asbestos that was used commercially? A. That's not where I spend my time reviewing the scientific literature. The whole idea behind my review of the scientific literature was to determine whether	2 3 4 5 6 7 8 9 10 11 12 r 13	you? A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of ovarian cancer that they have? A. No. Q. Do you know where they live? A. No. Q. Do you know do you have any knowledge of any of the women whose names I just mentioned use of talcum powder? A. No.
2 3 4 5 6 7 8 9 10 11 12 13 14	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the six types of asbestos? A. No. Q. Do you know the most common the most commonest asbestos that was used commercially? A. That's not where I spend my time reviewing the scientific literature. The whole idea behind my review of the scientific literature was to determine whether there was a biologically plausible explanation for	2 3 4 5 6 7 8 9 10 11 12 r 13	A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of ovarian cancer that they have? A. No. Q. Do you know where they live? A. No. Q. Do you know do you have any knowledge of any of the women whose names I just mentioned use of talcum powder? A. No. Q. In particular, do you know how long any of them used talcum powder?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the six types of asbestos? A. No. Q. Do you know the most common the most commonest asbestos that was used commercially? A. That's not where I spend my time reviewing the scientific literature. The whole idea behind my review of the scientific literature was to determine whether there was a biologically plausible explanation fo the epidemiologic association, and the fact that	2 3 4 5 6 7 8 9 10 11 12 12 13 14	A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of ovarian cancer that they have? A. No. Q. Do you know where they live? A. No. Q. Do you know do you have any knowledge of any of the women whose names I just mentioned use of talcum powder? A. No. Q. In particular, do you know how long any of them used talcum powder? A. No.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the six types of asbestos? A. No. Q. Do you know the most common the most commonest asbestos that was used commercially? A. That's not where I spend my time reviewing the scientific literature. The whole idea behind my review of the scientific literature was to determine whether there was a biologically plausible explanation fo the epidemiologic association, and the fact that there is evidence that there could be asbestos	2 3 4 5 6 7 8 9 10 11 12 12 13 14 15 16	A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of ovarian cancer that they have? A. No. Q. Do you know where they live? A. No. Q. Do you know do you have any knowledge of any of the women whose names I just mentioned use of talcum powder? A. No. Q. In particular, do you know how long any of them used talcum powder? A. No.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the six types of asbestos? A. No. Q. Do you know the most common the most commonest asbestos that was used commercially? A. That's not where I spend my time reviewing the scientific literature. The whole idea behind my review of the scientific literature was to determine whether there was a biologically plausible explanation fo the epidemiologic association, and the fact that there is evidence that there could be asbestos contamination makes adds one more source of	2 3 4 5 6 7 8 9 10 11 12 12 13 14 15 16	A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of ovarian cancer that they have? A. No. Q. Do you know where they live? A. No. Q. Do you know do you have any knowledge of any of the women whose names I just mentioned use of talcum powder? A. No. Q. In particular, do you know how long any of them used talcum powder? A. No. Q. Do you know the frequency that they used talcum powder?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the six types of asbestos? A. No. Q. Do you know the most common the most commonest asbestos that was used commercially? A. That's not where I spend my time reviewing the scientific literature. The whole idea behind my review of the scientific literature was to determine whether there was a biologically plausible explanation fo the epidemiologic association, and the fact that there is evidence that there could be asbestos contamination makes adds one more source of biological plausibility to it.	2 3 4 5 6 7 8 9 10 11 12 r 13 14 15 16 17	A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of ovarian cancer that they have? A. No. Q. Do you know where they live? A. No. Q. Do you know do you have any knowledge of any of the women whose names I just mentioned use of talcum powder? A. No. Q. In particular, do you know how long any of them used talcum powder? A. No. Q. Do you know the frequency that they used talcum powder? A. No.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the six types of asbestos? A. No. Q. Do you know the most common the most commonest asbestos that was used commercially? A. That's not where I spend my time reviewing the scientific literature. The whole idea behind my review of the scientific literature was to determine whether there was a biologically plausible explanation fo the epidemiologic association, and the fact that there is evidence that there could be asbestos contamination makes adds one more source of biological plausibility to it. Q. Is asbestos contamination of talc	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of ovarian cancer that they have? A. No. Q. Do you know where they live? A. No. Q. Do you know do you have any knowledge of any of the women whose names I just mentioned use of talcum powder? A. No. Q. In particular, do you know how long any of them used talcum powder? A. No. Q. Do you know the frequency that they used talcum powder? A. No.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the six types of asbestos? A. No. Q. Do you know the most common the most commonest asbestos that was used commercially? A. That's not where I spend my time reviewing the scientific literature. The whole idea behind my review of the scientific literature was to determine whether there was a biologically plausible explanation fo the epidemiologic association, and the fact that there is evidence that there could be asbestos contamination makes adds one more source of biological plausibility to it. Q. Is asbestos contamination of talc necessary for your causation opinions in this	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of ovarian cancer that they have? A. No. Q. Do you know where they live? A. No. Q. Do you know do you have any knowledge of any of the women whose names I just mentioned use of talcum powder? A. No. Q. In particular, do you know how long any of them used talcum powder? A. No. Q. Do you know the frequency that they used talcum powder? A. No. Q. Do you know the volume of talcum powder that they used?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the six types of asbestos? A. No. Q. Do you know the most common the most commonest asbestos that was used commercially? A. That's not where I spend my time reviewing the scientific literature. The whole idea behind my review of the scientific literature was to determine whether there was a biologically plausible explanation fo the epidemiologic association, and the fact that there is evidence that there could be asbestos contamination makes adds one more source of biological plausibility to it. Q. Is asbestos contamination of talc necessary for your causation opinions in this case?	2 3 4 5 6 7 8 9 10 11 12 r 13 14 15 16 17 18 19 20	A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of ovarian cancer that they have? A. No. Q. Do you know where they live? A. No. Q. Do you know do you have any knowledge of any of the women whose names I just mentioned use of talcum powder? A. No. Q. In particular, do you know how long any of them used talcum powder? A. No. Q. Do you know the frequency that they used talcum powder? A. No. Q. Do you know the volume of talcum powder that they used? A. No.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	cancer? A. I don't have an opinion. Q. Sitting here today, can you name the six types of asbestos? A. No. Q. Do you know the most common the most commonest asbestos that was used commercially? A. That's not where I spend my time reviewing the scientific literature. The whole idea behind my review of the scientific literature was to determine whether there was a biologically plausible explanation fo the epidemiologic association, and the fact that there is evidence that there could be asbestos contamination makes adds one more source of biological plausibility to it. Q. Is asbestos contamination of talc necessary for your causation opinions in this case? A. I don't believe so.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Not that I'm aware of, no. Q. Do you have any information about any of those women with regard to the type of ovarian cancer that they have? A. No. Q. Do you know where they live? A. No. Q. Do you know do you have any knowledge of any of the women whose names I just mentioned use of talcum powder? A. No. Q. In particular, do you know how long any of them used talcum powder? A. No. Q. Do you know the frequency that they used talcum powder? A. No. Q. Do you know the volume of talcum powder that they used? A. No.

Page 212

Page 210

- Q. Do you know of any testing for
- 2 asbestos that was done as to any talcum powder 3 product they claim to have used?
- 4 A. No.

1

- 5 O. Are you going to tell the judge and
- 6 jury in the cases we're talking about today that
- 7 you know the cause of each of these women's
- 8 ovarian cancer?
- 9 MR. TISI: Objection. Can I
- 10 help you out and say he's not going to be
- asked any questions about case-specific. 11
- 12 I'm not going to ask him.
- MR. HEGARTY: Let him answer. 13
- 14 THE WITNESS: I can't answer
- 15 that. I have no idea what I'm going to
- 16 say. I have no idea at that point with
- 17 respect to that issue.
- 18 BY MR. HEGARTY:
- 19 Well, let me ask it.
- 20 MR. TISI: He has not been
- 21 designated as a case-specific expert.
- 22 MR. HEGARTY: Let me re-ask
- 23 the question.
- 24 BY MR. HEGARTY:

Page 211

1

- 1 Q. Sitting here today, is it your
- 2 intent to tell the judge and the jury in this case
- 3 that you know what caused each of the women's
- 4 ovarian cancer whose names I read to you?
- 5 No. I -- all of -- what my
- 6 expertise is at the population level. I cannot --
- 7 I cannot definitive -- I will not definitively
- 8 state that -- I don't know anything about these
- 9 women. I just don't know anything about these
- 10 women.
- 11 O. Sitting here today, you don't
- 12 represent Boston University, correct?
- 13 A. That's correct.
- 14 Q. You don't speak for Boston
- 15 University or any entity in this case, correct?
- 16 A. I do not.
- 17 Q. You're not speaking for any
- 18 scientific organization or body?
- 19 A. No, I am not.
- 20 0. You're not speaking for any
- 21 regulatory group or agency?
- 22 A.
- 23 Q. You're not speaking for anyone but
- 24 yourself?

- 1 Α. That is correct.
- 2 Q. Do you have any forthcoming
- 3 publications regarding talcum powder use and
- 4 ovarian cancer?
- 5 A. No.
- 6 O. If you had any such publications or
- 7 if you have any such -- let me start over again.
- If you have any publications in the
- 9 future, would you disclose as a conflict of
- 10 interest your work in this litigation?
- Yes, I would if it was relevant to 11
- 12 this particular exposure and outcome.
- 13 Q. Are you working on any articles or
- 14 studies that pertain to talcum powder use and
- 15 ovarian cancer?
- 16 A. I am not.
- 17 Q. Are you working on any articles or
- 18 studies about asbestos and ovarian cancer?
- 19 A.
- 20 Q. Now, with regard to the report that
- 21 you and Dr. Rothman prepared in this litigation,
- 22 which we have been talking about this morning that
- 23 I marked as Exhibit Number 5 --
- 24 Α. Uh-huh.

Q.

- Page 213 -- is it correct that all the
- 2 opinions that you intend to offer in this
- 3 litigation are set out in this report?
- I believe so. Pending I believe at
- 5 the end of the report we had the -- we have the
- 6 right to look at additional information that
- 7 becomes available or provided to us. But barring
- 8 that, my opinions are in this report.
- 9 Well, and you note at the end:
- 10 "We reserve the right to amend this
- 11 report."
- You have not issued an amended 12
- 13 report, correct?
- 14 A. I have not.
- 15 Q. Have any of your opinions set out in
- 16 this report changed or modified since November
- 17 2023?
- 18 A. No.
- 19 All the materials on which you Q.
- 20 rely -- let me start over again.
- 21 All the materials on which you
- 22 intend to reference in providing your opinions are
- 23 set out in your report or in the Materials
- 24 Considered list, correct?

54 (Pages 210 - 213)

1	Page 214		Page 216
1	MR. TISI: Object. Objection.	1	communicating your opinions in this case?
2	They may become.	$\frac{1}{2}$	A. Again, I don't know.
3	THE WITNESS: Well, I mean,	3	MR. TISI: Let me just object.
4	again	4	I gave you an example, but I didn't mean
5	MR. TISI: Additional	5	that to be exclusive. There are things
6	additional information one second.	6	that we have provided to him or he's
7	MR. HEGARTY: Please let him	7	gotten on his own since the date of his
8	answer the question.	8	report and now, and I can go through each
9	MR. TISI: No, let me.	9	and every one of them.
10	Objection. He reserves the	10	I doubt you want me to do
11	right and we reserve the right to ask him	11	that, but I do not want that to
12	not only to comment on any expert report	12	anything to be seen as we are limiting
13	by the defendants, which has not been	13	him to November of 2023, and I'm not
14	they have not been provided yet, but also	14	going to do that.
15	to respond to information that becomes	15	And there are going to be
16	available and have become available since	16	plenty. I mean, using your expert
17	the time of his report including, for	17	reports as an example. I reserve the
18	example I mean, there are things like	18	right to ask him questions about things
19	the recent EPA rule, for example.	19	that are said in your expert reports, and
20	There are things that have	20	I'm going to provide them to him.
21	become available and will continue to		BY MR. HEGARTY:
22	become available, and I expect him to be	22	Q. Can you answer my question?
23	able to give opinions based upon those.	23	A. Would you repeat the question,
	BY MR. HEGARTY:		please?
	Page 215	2.	Page 217
1	Q. Let me ask my question.	1	Q. Sure.
2	Sitting here today, are all the	2	Sitting here today, other than the
	materials you intend to refer to in providing your		recent EPA report you referenced, do you know of
	opinions in this case set out in your report		any other references that you're going to refer to
	either at the end of the report or in the		any other references that you're going to refer to
	cruiter are une crite or the report of in the	5	in providing your opinions in this case?
	Materials Considered list?	1	in providing your opinions in this case? MR. TISI: Objection for the
6	Materials Considered list? A. No. I can't say that that's the case	6	MR. TISI: Objection for the
6 7	A. No, I can't say that that's the case	6 7	MR. TISI: Objection for the reasons I stated.
6 7 8	A. No, I can't say that that's the case and	6 7 8	MR. TISI: Objection for the reasons I stated. You may answer.
6 7 8 9	A. No, I can't say that that's the case and Q. Well, what materials I'm sorry.	6 7 8 9	MR. TISI: Objection for the reasons I stated. You may answer. THE WITNESS: I don't know
6 7 8 9 10	A. No, I can't say that that's the case and Q. Well, what materials I'm sorry. Go ahead.	6 7 8 9 10	MR. TISI: Objection for the reasons I stated. You may answer. THE WITNESS: I don't know what other references or documents that
6 7 8 9 10 11	A. No, I can't say that that's the case and Q. Well, what materials I'm sorry. Go ahead. A. Well, the recent EPA report that	6 7 8 9 10 11	MR. TISI: Objection for the reasons I stated. You may answer. THE WITNESS: I don't know what other references or documents that might become available at the time. So I
6 7 8 9 10 11 12	A. No, I can't say that that's the case and Q. Well, what materials I'm sorry. Go ahead. A. Well, the recent EPA report that came out that specified talc asbestos as being	6 7 8 9 10 11 12	MR. TISI: Objection for the reasons I stated. You may answer. THE WITNESS: I don't know what other references or documents that might become available at the time. So I can't say that I know of something as of
6 7 8 9 10 11 12 13	A. No, I can't say that that's the case and Q. Well, what materials I'm sorry. Go ahead. A. Well, the recent EPA report that came out that specified talc asbestos as being a cause for ovarian cancer is something that I	6 7 8 9 10 11 12 13	MR. TISI: Objection for the reasons I stated. You may answer. THE WITNESS: I don't know what other references or documents that might become available at the time. So I can't say that I know of something as of right now.
6 7 8 9 10 11 12 13 14	A. No, I can't say that that's the case and Q. Well, what materials I'm sorry. Go ahead. A. Well, the recent EPA report that came out that specified talc asbestos as being a cause for ovarian cancer is something that I might refer to, and I don't know what other	6 7 8 9 10 11 12 13 14	MR. TISI: Objection for the reasons I stated. You may answer. THE WITNESS: I don't know what other references or documents that might become available at the time. So I can't say that I know of something as of right now. MR. HEGARTY: Let's go off the
6 7 8 9 10 11 12 13 14 15	A. No, I can't say that that's the case and Q. Well, what materials I'm sorry. Go ahead. A. Well, the recent EPA report that came out that specified talc asbestos as being a cause for ovarian cancer is something that I might refer to, and I don't know what other information might come out from the scientific	6 7 8 9 10 11 12 13 14 15	MR. TISI: Objection for the reasons I stated. You may answer. THE WITNESS: I don't know what other references or documents that might become available at the time. So I can't say that I know of something as of right now. MR. HEGARTY: Let's go off the record.
6 7 8 9 10 11 12 13 14 15 16	A. No, I can't say that that's the case and Q. Well, what materials I'm sorry. Go ahead. A. Well, the recent EPA report that came out that specified talc asbestos as being a cause for ovarian cancer is something that I might refer to, and I don't know what other information might come out from the scientific literature.	6 7 8 9 10 11 12 13 14 15 16	MR. TISI: Objection for the reasons I stated. You may answer. THE WITNESS: I don't know what other references or documents that might become available at the time. So I can't say that I know of something as of right now. MR. HEGARTY: Let's go off the record. (Whereupon, at 1:04 p.m., a
6 7 8 9 10 11 12 13 14 15 16 17	A. No, I can't say that that's the case and Q. Well, what materials I'm sorry. Go ahead. A. Well, the recent EPA report that came out that specified talc asbestos as being a cause for ovarian cancer is something that I might refer to, and I don't know what other information might come out from the scientific literature. So I can't affirmatively say that	6 7 8 9 10 11 12 13 14 15 16 17	MR. TISI: Objection for the reasons I stated. You may answer. THE WITNESS: I don't know what other references or documents that might become available at the time. So I can't say that I know of something as of right now. MR. HEGARTY: Let's go off the record.
6 7 8 9 10 11 12 13 14 15 16 17 18	A. No, I can't say that that's the case and Q. Well, what materials I'm sorry. Go ahead. A. Well, the recent EPA report that came out that specified talc asbestos as being a cause for ovarian cancer is something that I might refer to, and I don't know what other information might come out from the scientific literature. So I can't affirmatively say that the only information that I might say in the	6 7 8 9 10 11 12 13 14 15 16 17 18	MR. TISI: Objection for the reasons I stated. You may answer. THE WITNESS: I don't know what other references or documents that might become available at the time. So I can't say that I know of something as of right now. MR. HEGARTY: Let's go off the record. (Whereupon, at 1:04 p.m., a
6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. No, I can't say that that's the case and Q. Well, what materials I'm sorry. Go ahead. A. Well, the recent EPA report that came out that specified talc asbestos as being a cause for ovarian cancer is something that I might refer to, and I don't know what other information might come out from the scientific literature. So I can't affirmatively say that the only information that I might say in the future would come from articles and content in	6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. TISI: Objection for the reasons I stated. You may answer. THE WITNESS: I don't know what other references or documents that might become available at the time. So I can't say that I know of something as of right now. MR. HEGARTY: Let's go off the record. (Whereupon, at 1:04 p.m., a
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. No, I can't say that that's the case and Q. Well, what materials I'm sorry. Go ahead. A. Well, the recent EPA report that came out that specified talc asbestos as being a cause for ovarian cancer is something that I might refer to, and I don't know what other information might come out from the scientific literature. So I can't affirmatively say that the only information that I might say in the future would come from articles and content in this report.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. TISI: Objection for the reasons I stated. You may answer. THE WITNESS: I don't know what other references or documents that might become available at the time. So I can't say that I know of something as of right now. MR. HEGARTY: Let's go off the record. (Whereupon, at 1:04 p.m., a
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. No, I can't say that that's the case and Q. Well, what materials I'm sorry. Go ahead. A. Well, the recent EPA report that came out that specified talc asbestos as being a cause for ovarian cancer is something that I might refer to, and I don't know what other information might come out from the scientific literature. So I can't affirmatively say that the only information that I might say in the future would come from articles and content in this report. Q. Other than the EPA report you	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. TISI: Objection for the reasons I stated. You may answer. THE WITNESS: I don't know what other references or documents that might become available at the time. So I can't say that I know of something as of right now. MR. HEGARTY: Let's go off the record. (Whereupon, at 1:04 p.m., a
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. No, I can't say that that's the case and Q. Well, what materials I'm sorry. Go ahead. A. Well, the recent EPA report that came out that specified talc asbestos as being a cause for ovarian cancer is something that I might refer to, and I don't know what other information might come out from the scientific literature. So I can't affirmatively say that the only information that I might say in the future would come from articles and content in this report. Q. Other than the EPA report you referenced, do you know, sitting here today, of	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. TISI: Objection for the reasons I stated. You may answer. THE WITNESS: I don't know what other references or documents that might become available at the time. So I can't say that I know of something as of right now. MR. HEGARTY: Let's go off the record. (Whereupon, at 1:04 p.m., a
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. No, I can't say that that's the case and Q. Well, what materials I'm sorry. Go ahead. A. Well, the recent EPA report that came out that specified talc asbestos as being a cause for ovarian cancer is something that I might refer to, and I don't know what other information might come out from the scientific literature. So I can't affirmatively say that the only information that I might say in the future would come from articles and content in this report. Q. Other than the EPA report you	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. TISI: Objection for the reasons I stated. You may answer. THE WITNESS: I don't know what other references or documents that might become available at the time. So I can't say that I know of something as of right now. MR. HEGARTY: Let's go off the record. (Whereupon, at 1:04 p.m., a

	Page 218		Page 220
1	AFTERNOON SESSION	1	A. I reviewed yes, there are reviews
2	(1:40 p.m.)		that I I cited in my previous publications
3	BERNARD L. HARLOW, PHD		and but, again, I was I was focusing on the
4	called for continued examination and, having been	1	epidemiologic human studies with respect to coming
5	previously duly sworn, was examined and testified	1	up with my opinions.
6	further as follows:	6	Q. Do you agree that you did not
7	EXAMINATION (CONTINUED)		specifically cite to any animal study in your
8	MR. HEGARTY: We are back on		report?
9	the record after a short lunch break.	9	A. I
	BY MR. HEGARTY:	10	MR. TISI: Objection.
11	Q. Doctor, do you agree that before	11	THE WITNESS: I I can't be
	offering opinions in a case like this, where you	12	certain of that, but it certainly did not
	will be heard by and relied upon by a judge and a	13	weigh in on my conclusions.
1	jury, you should have completed a comprehensive		BY MR. HEGARTY:
	analysis of the literature that was available to	15	
	you about the subject matter of your opinions?	-	Q. Did you do a comprehensive review of all the cell study literature involving talcum
17	A. Yes.		powder?
18	Q. Have you ever offered in any public	18	A. No.
		19	Q. You did not refer to any cell
20	Have you ever offered in any		studies where cells are or talc has been applied
	publication opinions on any subject matter that		to cells in your report, correct?
1	would be read and relied upon by your peers and	$\begin{vmatrix} 21\\22\end{vmatrix}$	A. That's correct.
1	others that was not based on a comprehensive	23	Q. Did you do a comprehensive analysis
1	analysis of the literature that was available to		of all the publications that have discussed
24	<u> </u>	24	
1	Page 219 you on the subject matter of the whatever you were	1	Page 221 asbestos and ovarian cancer?
	discussing?	2	A. No, I did not.
3	A. No.	3	Q. As to the IARC 2012 Monograph, which
4	Q. With regard to what you reviewed for	-	you do reference in your report
1	your opinions in your report, did you do a	5	A. Uh-huh.
1	comprehensive analysis of all the animal studies	6	Q did you read that monograph when
	involving talcum powder?	-	it came out initially?
8	MR. TISI: Objection. Vague.	8	A. No.
9	THE WITNESS: I reviewed some	9	Q. Did you read that monograph before
10	of the animal models, but the problem is	1	you started working on your expert report?
11	that it's it's difficult because most	11	A. No.
12	of the studies have been done in mice and	12	Q. Did you read the entirety of that
13	rats, and they have different anatomical		monograph in connection with preparing your expert
14	features that are dissimilar from that		report?
15	with women, such as a bursa sac that	15	A. I read parts of it.
16	encloses the ovaries.	16	Q. That monograph referred to a number
	BY MR. HEGARTY:		of studies that looked at asbestos exposure and
18	Q. In connection with preparing your		ovarian cancer.
	report in this case, did you review the studies of	19	Did you pull the individual studies
1/	those animal models?		and read them
20		21	A. I didn't.
	A. No. I didn't		
21	A. No, I didn't. O. So any review of the animal studies		
21 22	Q. So any review of the animal studies	22	Q that were referenced in the
21 22 23		22	

	Daga 222		Page 224
1	Page 222 toward biological plausibility, and I felt there	1	Page 224 BY MR. HEGARTY:
	was a lot of evidence already for biological	2	Q. Yeah. My question is: Are you
1	plausibility that I didn't need to do an		aware of either from your own reading or from
	exhaustive literature search on the association		other sources hearing that there are background
	between asbestos and ovarian cancer.		rates of asbestos in certain parts of the United
6	Q. Do you have an opinion for purposes		States?
	of this case as to the level of exposure to	7	A. I have not read that.
	asbestos that is necessary to cause ovarian	8	Q. Do you have any opinion as to
9	cancer?	_	whether background rates of asbestos just in the
10	MR. TISI: Objection.		air are capable of causing ovarian cancer?
11	THE WITNESS: I think any	11	A. I don't have an opinion around that.
12	exposure to asbestos is important.	12	Q. Do you agree that there are exposure
	BY MR. HEGARTY:		levels to asbestos where no harm has been shown?
14	Q. Is it your opinion that any level of	14	A. I'm not aware of that.
15		15	And I certainly have not heard any
16	A. I'm not I didn't do a causal		regulatory body suggesting that there is a certain
	analysis around that, but I would certainly be		acceptable level of asbestos.
	worried about any asbestos contaminant any	18	Q. Did you do any analysis in your
19			report as to the biologic plausibility of asbestos
20	Q. Do you have an opinion as to the		fibers causing ovarian cancer?
	types of asbestos that have been shown to cause	21	A. Could you repeat that, please?
	ovarian cancer?	22	Q. Sure.
23	A. No, I don't have an opinion there.	23	Did you do any analysis as set out
24	MR. TISI: Sorry. Again, keep		in your report of the biologic plausibility of
		_ :	in jour report of the crorogre plantscarry of
l	Page 222		Page 225
1	Page 223	1	Page 225 ashestos fibers causing ovarian cancer?
1 2	your voice up.		asbestos fibers causing ovarian cancer?
2	your voice up. THE WITNESS: Sorry. Let me	2	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate
3	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me.	2 3	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is
2 3 4	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY:	2 3 4	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated
2 3 4 5	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literature	2 3 4 5	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos.
2 3 4 5 6	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literature published literature that has stated that asbestos	2 3 4 5 6	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos. Q. Do you have any opinion as to the
2 3 4 5 6 7	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literature published literature that has stated that asbestos in talc applied to the genital area can cause	2 3 4 5 6 7	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos. Q. Do you have any opinion as to the exposure levels or dose of asbestos necessary to
2 3 4 5 6 7 8	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literature published literature that has stated that asbestos in talc applied to the genital area can cause ovarian cancer, that the route of delivery of	2 3 4 5 6 7 8	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos. Q. Do you have any opinion as to the exposure levels or dose of asbestos necessary to be biologically plausible to be a biologically
2 3 4 5 6 7 8 9	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literature published literature that has stated that asbestos in talc applied to the genital area can cause ovarian cancer, that the route of delivery of asbestos via talc can cause ovarian cancer?	2 3 4 5 6 7 8 9	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos. Q. Do you have any opinion as to the exposure levels or dose of asbestos necessary to be biologically plausible to be a biologically plausible cause of ovarian cancer?
2 3 4 5 6 7 8 9	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literaturepublished literature that has stated that asbestos in talc applied to the genital area can cause ovarian cancer, that the route of delivery of asbestos via talc can cause ovarian cancer? MR. TISI: Objection.	2 3 4 5 6 7 8 9 10	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos. Q. Do you have any opinion as to the exposure levels or dose of asbestos necessary to be biologically plausible to be a biologically plausible cause of ovarian cancer? MR. TISI: Objection. Let me
2 3 4 5 6 7 8 9 10 11	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literature published literature that has stated that asbestos in talc applied to the genital area can cause ovarian cancer, that the route of delivery of asbestos via talc can cause ovarian cancer? MR. TISI: Objection. THE WITNESS: Yeah. I have	2 3 4 5 6 7 8 9 10 11	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos. Q. Do you have any opinion as to the exposure levels or dose of asbestos necessary to be biologically plausible to be a biologically plausible cause of ovarian cancer? MR. TISI: Objection. Let me just put my objection on the record.
2 3 4 5 6 7 8 9 10 11 12	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literature published literature that has stated that asbestos in talc applied to the genital area can cause ovarian cancer, that the route of delivery of asbestos via talc can cause ovarian cancer? MR. TISI: Objection. THE WITNESS: Yeah. I have not seen those words used, but I have	2 3 4 5 6 7 8 9 10 11 12	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos. Q. Do you have any opinion as to the exposure levels or dose of asbestos necessary to be biologically plausible to be a biologically plausible cause of ovarian cancer? MR. TISI: Objection. Let me just put my objection on the record. Biologically plausible cause
2 3 4 5 6 7 8 9 10 11 12 13	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literature published literature that has stated that asbestos in talc applied to the genital area can cause ovarian cancer, that the route of delivery of asbestos via talc can cause ovarian cancer? MR. TISI: Objection. THE WITNESS: Yeah. I have not seen those words used, but I have seen many articles where it is	2 3 4 5 6 7 8 9 10 11 12 13	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos. Q. Do you have any opinion as to the exposure levels or dose of asbestos necessary to be biologically plausible to be a biologically plausible cause of ovarian cancer? MR. TISI: Objection. Let me just put my objection on the record. Biologically plausible cause are inconsistent.
2 3 4 5 6 7 8 9 10 11 12 13 14	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literature published literature that has stated that asbestos in talc applied to the genital area can cause ovarian cancer, that the route of delivery of asbestos via talc can cause ovarian cancer? MR. TISI: Objection. THE WITNESS: Yeah. I have not seen those words used, but I have seen many articles where it is hypothesized that asbestos contamination	2 3 4 5 6 7 8 9 10 11 12 13 14	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos. Q. Do you have any opinion as to the exposure levels or dose of asbestos necessary to be biologically plausible to be a biologically plausible cause of ovarian cancer? MR. TISI: Objection. Let me just put my objection on the record. Biologically plausible cause are inconsistent. THE WITNESS: Could you
2 3 4 5 6 7 8 9 10 11 12 13 14 15	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literature published literature that has stated that asbestos in talc applied to the genital area can cause ovarian cancer, that the route of delivery of asbestos via talc can cause ovarian cancer? MR. TISI: Objection. THE WITNESS: Yeah. I have not seen those words used, but I have seen many articles where it is hypothesized that asbestos contamination of talc is a biological mechanism by	2 3 4 5 6 7 8 9 10 11 12 13 14 15	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos. Q. Do you have any opinion as to the exposure levels or dose of asbestos necessary to be biologically plausible to be a biologically plausible cause of ovarian cancer? MR. TISI: Objection. Let me just put my objection on the record. Biologically plausible cause are inconsistent. THE WITNESS: Could you please repeat?
2 3 4 5 6 7 8 9 10 11 12 13 14	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literature published literature that has stated that asbestos in talc applied to the genital area can cause ovarian cancer, that the route of delivery of asbestos via talc can cause ovarian cancer? MR. TISI: Objection. THE WITNESS: Yeah. I have not seen those words used, but I have seen many articles where it is hypothesized that asbestos contamination	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos. Q. Do you have any opinion as to the exposure levels or dose of asbestos necessary to be biologically plausible to be a biologically plausible cause of ovarian cancer? MR. TISI: Objection. Let me just put my objection on the record. Biologically plausible cause are inconsistent. THE WITNESS: Could you please repeat? BY MR. HEGARTY:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literature published literature that has stated that asbestos in talc applied to the genital area can cause ovarian cancer, that the route of delivery of asbestos via talc can cause ovarian cancer? MR. TISI: Objection. THE WITNESS: Yeah. I have not seen those words used, but I have seen many articles where it is hypothesized that asbestos contamination of talc is a biological mechanism by which ovarian cancer by which ovarian cancer could occur.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos. Q. Do you have any opinion as to the exposure levels or dose of asbestos necessary to be biologically plausible to be a biologically plausible cause of ovarian cancer? MR. TISI: Objection. Let me just put my objection on the record. Biologically plausible cause are inconsistent. THE WITNESS: Could you please repeat? BY MR. HEGARTY: Q. Sure.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literature published literature that has stated that asbestos in talc applied to the genital area can cause ovarian cancer, that the route of delivery of asbestos via talc can cause ovarian cancer? MR. TISI: Objection. THE WITNESS: Yeah. I have not seen those words used, but I have seen many articles where it is hypothesized that asbestos contamination of talc is a biological mechanism by which ovarian cancer by which ovarian cancer could occur. BY MR. HEGARTY:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos. Q. Do you have any opinion as to the exposure levels or dose of asbestos necessary to be biologically plausible to be a biologically plausible cause of ovarian cancer? MR. TISI: Objection. Let me just put my objection on the record. Biologically plausible cause are inconsistent. THE WITNESS: Could you please repeat? BY MR. HEGARTY: Q. Sure. Do you have any opinion as to what
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literature published literature that has stated that asbestos in talc applied to the genital area can cause ovarian cancer, that the route of delivery of asbestos via talc can cause ovarian cancer? MR. TISI: Objection. THE WITNESS: Yeah. I have not seen those words used, but I have seen many articles where it is hypothesized that asbestos contamination of talc is a biological mechanism by which ovarian cancer by which ovarian cancer could occur. BY MR. HEGARTY: Q. Have you ever read studies or become	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos. Q. Do you have any opinion as to the exposure levels or dose of asbestos necessary to be biologically plausible to be a biologically plausible cause of ovarian cancer? MR. TISI: Objection. Let me just put my objection on the record. Biologically plausible cause are inconsistent. THE WITNESS: Could you please repeat? BY MR. HEGARTY: Q. Sure. Do you have any opinion as to what exposure levels or dose of asbestos is necessary
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literature published literature that has stated that asbestos in talc applied to the genital area can cause ovarian cancer, that the route of delivery of asbestos via talc can cause ovarian cancer? MR. TISI: Objection. THE WITNESS: Yeah. I have not seen those words used, but I have seen many articles where it is hypothesized that asbestos contamination of talc is a biological mechanism by which ovarian cancer by which ovarian cancer could occur. BY MR. HEGARTY: Q. Have you ever read studies or become aware of studies reporting that there are	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos. Q. Do you have any opinion as to the exposure levels or dose of asbestos necessary to be biologically plausible to be a biologically plausible cause of ovarian cancer? MR. TISI: Objection. Let me just put my objection on the record. Biologically plausible cause are inconsistent. THE WITNESS: Could you please repeat? BY MR. HEGARTY: Q. Sure. Do you have any opinion as to what exposure levels or dose of asbestos is necessary to have biologic plausibility between ovarian
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literature published literature that has stated that asbestos in talc applied to the genital area can cause ovarian cancer, that the route of delivery of asbestos via talc can cause ovarian cancer? MR. TISI: Objection. THE WITNESS: Yeah. I have not seen those words used, but I have seen many articles where it is hypothesized that asbestos contamination of talc is a biological mechanism by which ovarian cancer by which ovarian cancer could occur. BY MR. HEGARTY: Q. Have you ever read studies or become aware of studies reporting that there are background rates of asbestos in certain areas of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos. Q. Do you have any opinion as to the exposure levels or dose of asbestos necessary to be biologically plausible to be a biologically plausible cause of ovarian cancer? MR. TISI: Objection. Let me just put my objection on the record. Biologically plausible cause are inconsistent. THE WITNESS: Could you please repeat? BY MR. HEGARTY: Q. Sure. Do you have any opinion as to what exposure levels or dose of asbestos is necessary to have biologic plausibility between ovarian cancer and asbestos exposure?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literature published literature that has stated that asbestos in talc applied to the genital area can cause ovarian cancer, that the route of delivery of asbestos via talc can cause ovarian cancer? MR. TISI: Objection. THE WITNESS: Yeah. I have not seen those words used, but I have seen many articles where it is hypothesized that asbestos contamination of talc is a biological mechanism by which ovarian cancer by which ovarian cancer could occur. BY MR. HEGARTY: Q. Have you ever read studies or become aware of studies reporting that there are background rates of asbestos in certain areas of this country?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos. Q. Do you have any opinion as to the exposure levels or dose of asbestos necessary to be biologically plausible to be a biologically plausible cause of ovarian cancer? MR. TISI: Objection. Let me just put my objection on the record. Biologically plausible cause are inconsistent. THE WITNESS: Could you please repeat? BY MR. HEGARTY: Q. Sure. Do you have any opinion as to what exposure levels or dose of asbestos is necessary to have biologic plausibility between ovarian cancer and asbestos exposure? MR. TISI: Objection.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	your voice up. THE WITNESS: Sorry. Let me know if you're not hearing me. BY MR. HEGARTY: Q. Are you aware of any literature published literature that has stated that asbestos in talc applied to the genital area can cause ovarian cancer, that the route of delivery of asbestos via talc can cause ovarian cancer? MR. TISI: Objection. THE WITNESS: Yeah. I have not seen those words used, but I have seen many articles where it is hypothesized that asbestos contamination of talc is a biological mechanism by which ovarian cancer by which ovarian cancer could occur. BY MR. HEGARTY: Q. Have you ever read studies or become aware of studies reporting that there are background rates of asbestos in certain areas of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	asbestos fibers causing ovarian cancer? A. In my report, I did not dissociate whether my view on the cause of ovarian cancer is limited to that exposure which is contaminated with asbestos. Q. Do you have any opinion as to the exposure levels or dose of asbestos necessary to be biologically plausible to be a biologically plausible cause of ovarian cancer? MR. TISI: Objection. Let me just put my objection on the record. Biologically plausible cause are inconsistent. THE WITNESS: Could you please repeat? BY MR. HEGARTY: Q. Sure. Do you have any opinion as to what exposure levels or dose of asbestos is necessary to have biologic plausibility between ovarian cancer and asbestos exposure?

Page 228

Page 226

PageID: 211271

1 contamination is of concern to me.

2 BY MR. HEGARTY:

- 3 Q. Do you have any opinion as to the
- 4 volume of asbestos that's been -- that has been in
- 5 Johnson's Baby Powder or Shower to Shower over the
- 6 years?
- 7 A. Could you repeat the question again?
- 8 Q. Sure.
- 9 Do you have any opinion as to the
- 10 volume of asbestos fibers in Johnson's Baby Powder
- 11 or Shower to Shower over the last 70 years?
- 12 A. Yeah. Only -- only that over many
- 13 decades asbestiform fibers have been observed in
- 14 the talc products. The volume is -- I don't know
- 15 how -- well, it's -- I have not -- I have no
- 16 opinion about what volume is necessary to make it
- 17 a risk factor. Only that it has consistently been
- 18 shown to be present.
- 19 Q. Do you know what percentage --
- 20 strike that.
- 21 Do you have an opinion as to what
- 22 percentage of Johnson's Baby Powder and Shower to
- 23 Shower bottles manufactured over the years have
- 24 contained any amount of asbestos?

Page 227

- 1 A. I don't have any opinion on what 2 proportion of products did and did not have
- 3 contamination. Only that there is evidence to
- 4 show that many did.
- 5 Q. For purposes of your biologic
- 6 plausibility opinion --
- 7 A. Yes.
- 8 Q. -- is it necessary for a talcum
- 9 powder product to reach the ovaries?
- 10 A. No. It could cause a carcinogenic
- 11 process in the fallopian tubes. So it doesn't
- 12 necessarily have to have been -- have to have
- 13 reached the ovaries.
- And there's new evidence to suggest that certain epithelial ovarian cancers actually
- 16 arise in the fallopian tubes.
- 17 Q. Can you cite for me any studies that
- 18 have commented on biologic plausibility as it
- 19 relates to talc and ovarian cancer with regard to
- 20 the ovarian -- with regard to the fallopian tubes
- 21 versus the ovaries?
- A. I have read that some histologic
- 23 subtypes may be more likely to initiate in the
- 24 fallopian tubes as opposed to the ovaries.

1 But I do want to just clarify that

2 talc particulates have been observed both in the

3 fallopian tubes and in the ovaries.

4 Q. My question is a little bit 5 different.

Can you cite for me any studies that

7 have focused on the fallopian tube with regard to

- 8 talc when discussing biologic plausibility?
- 9 A. Only to the extent that -- only to
- 10 the extent that exposure in the fallopian tubes is
- 11 sufficient to, along -- along with -- with actual
- 12 exposure within the ovaries, is sufficient to
- 13 warrant biological plausibility.
- 14 Q. You recall the authors on any of --
- 15 any such study that have talked about that?
- 16 A. I believe it's possible that
- 17 Silkraut might have talked about that.
- 18 Q. You mean Schildkraut?
- 19 A. Yeah, Schildkraut.
 - Q. The study we talked about today?
- 21 A. Yes. Yes. I believe that to be the
- 22 case, as I recall.

20

- 23 Q. With regard to your methodology for
- 24 preparing the report --

Page 229

- 1 A. Yes.
- Q. -- at the time you started this
- 3 process, did you and Dr. Rothman share the same
- 4 methodology?
- 5 A. Yes. I have always used the
- 6 criteria pointed out by Hill as factors to be
- 7 considered but not solely determinant for making a
- 8 causation assessment.
- 9 Q. Can you cite for me any instances
- 10 where you have set out in the published literature
- 11 the methodology you employed in this case for
- 12 analyzing whether talcum powder use can cause
- 13 ovarian cancer?
- 14 A. Well, I think in my earlier
- 15 publications I followed a similar approach,
- 16 looking at issues related to strength and
- 17 consistency of the association, dose response when
- 18 available, biological plausibility. But always
- 19 taking into consideration biases that could
- 20 explain the findings that we see with respect to
- 21 confounding, misclassification, temporality.
- 22 So -- even recall bias.
- So I would like to think that I have
- 24 taken -- and, frankly, in reading my older

	D 220		D 222
1	Page 230	1	MR. TISI: Let me just object
	articles, I'm actually quite impressed that I	$\frac{1}{2}$	to the word "criteria" because that's not
1	followed those guidelines throughout my career.	3	what it says.
3	Q. When you're talking about your	4	THE WITNESS: There I believe
	article, are you talking about the articles that	5	
		6	what we tried to say is that there is no checklist alone that can be used for
	cancer?	7	
7	A. Yes. Yes.		causal inference, and that's the first
8	Q. Other than those articles, can you	8	sentence of the of the next paragraph.
	tell me any other publications of yours where you	9	"If no checklist for causal
	apply the same methodology as you applied in your	10	inference exists, then how does causal
	report?	11	inference proceed?"
12	A. Oh, virtually all of my articles	12	And the way I believe we talk
l .	that relate to the etiology of etiology of a	13	about it throughout the report is, we
	particular adverse outcome.	14	look at the components that are indicated
15	Q. Please look at page 4 of your	15	as Bradford-Hill components, but always
	report.	16	look at them in the context of how they
17	The section "Overall Approach and	17	could have been influenced by
	Methodology of This Review" sets out your	18	bias-related issues, and that's what we
	methodology for your analysis of the literature	19	tried to to lay out here. So, yeah.
l	regarding talcum powder use and ovarian cancer,	20	
	correct?	21	Q. So in this part of your report,
22	A. Yes.		you're not you're not saying that the
23	Q. This part of your report refers to		Bradford-Hill analysis, factors, or criteria,
24	the Bradford-Hill analysis or criteria, but at the	24	however you want to characterize it, leads to an
	Page 231		Page 233
1	Page 231 end of the first paragraph you write:	1	Page 233 unreliable result?
1 2	-	1 2	-
2	end of the first paragraph you write:	2	unreliable result?
2	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been	2 3	unreliable result? A. I think if you only do a checklist
3	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such	2 3 4	unreliable result? A. I think if you only do a checklist without taking into account how that data was
2 3 4	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such	2 3 4 5	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford
2 3 4 5	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such criteria does not exist."	2 3 4 5	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford criteria do not in and of itself allow for a causal allow for causal inference.
2 3 4 5	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such criteria does not exist." You see where I'm reading?	2 3 4 5 6 7	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford criteria do not in and of itself allow for a causal allow for causal inference.
2 3 4 5 6 7	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such criteria does not exist." You see where I'm reading? A. Yes, I do.	2 3 4 5 6 7 8	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford criteria do not in and of itself allow for a causal allow for causal inference. Q. So as an example, if you only talk
2 3 4 5 6 7 8	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such criteria does not exist." You see where I'm reading? A. Yes, I do. MR. TISI: Let me just object	2 3 4 5 6 7 8 9	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford criteria do not in and of itself allow for a causal allow for causal inference. Q. So as an example, if you only talk about strength of association there being a
2 3 4 5 6 7 8 9	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such criteria does not exist." You see where I'm reading? A. Yes, I do. MR. TISI: Let me just object to your characterization as a criteria,	2 3 4 5 6 7 8 9	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford criteria do not in and of itself allow for a causal allow for causal inference. Q. So as an example, if you only talk about strength of association there being a relative risk or odds ratio that is considered to
2 3 4 5 6 7 8 9	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such criteria does not exist." You see where I'm reading? A. Yes, I do. MR. TISI: Let me just object to your characterization as a criteria, but go ahead.	2 3 4 5 6 7 8 9 10 11	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford criteria do not in and of itself allow for a causal allow for causal inference. Q. So as an example, if you only talk about strength of association there being a relative risk or odds ratio that is considered to satisfy that analysis to be strong or without
2 3 4 5 6 7 8 9 10 11	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such criteria does not exist." You see where I'm reading? A. Yes, I do. MR. TISI: Let me just object to your characterization as a criteria, but go ahead. BY MR. HEGARTY: Q. You then go on in the next two	2 3 4 5 6 7 8 9 10 11 12	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford criteria do not in and of itself allow for a causal allow for causal inference. Q. So as an example, if you only talk about strength of association there being a relative risk or odds ratio that is considered to satisfy that analysis to be strong or without identifying or comparing the literature on whether
2 3 4 5 6 7 8 9 10 11 12	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such criteria does not exist." You see where I'm reading? A. Yes, I do. MR. TISI: Let me just object to your characterization as a criteria, but go ahead. BY MR. HEGARTY: Q. You then go on in the next two paragraphs to essentially say there is no	2 3 4 5 6 7 8 9 10 11 12	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford criteria do not in and of itself allow for a causal allow for causal inference. Q. So as an example, if you only talk about strength of association there being a relative risk or odds ratio that is considered to satisfy that analysis to be strong or without identifying or comparing the literature on whether that can be explained by other reasons, that would
2 3 4 5 6 7 8 9 10 11 12 13	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such criteria does not exist." You see where I'm reading? A. Yes, I do. MR. TISI: Let me just object to your characterization as a criteria, but go ahead. BY MR. HEGARTY: Q. You then go on in the next two paragraphs to essentially say there is no	2 3 4 5 6 7 8 9 10 11 12 13 14	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford criteria do not in and of itself allow for a causal allow for causal inference. Q. So as an example, if you only talk about strength of association there being a relative risk or odds ratio that is considered to satisfy that analysis to be strong or without identifying or comparing the literature on whether that can be explained by other reasons, that would not be a valid result?
2 3 4 5 6 7 8 9 10 11 12 13	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such criteria does not exist." You see where I'm reading? A. Yes, I do. MR. TISI: Let me just object to your characterization as a criteria, but go ahead. BY MR. HEGARTY: Q. You then go on in the next two paragraphs to essentially say there is no checklist for causal inference, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford criteria do not in and of itself allow for a causal allow for causal inference. Q. So as an example, if you only talk about strength of association there being a relative risk or odds ratio that is considered to satisfy that analysis to be strong or without identifying or comparing the literature on whether that can be explained by other reasons, that would not be a valid result? A. That's correct. If I believe that a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such criteria does not exist." You see where I'm reading? A. Yes, I do. MR. TISI: Let me just object to your characterization as a criteria, but go ahead. BY MR. HEGARTY: Q. You then go on in the next two paragraphs to essentially say there is no checklist for causal inference, correct? A. Alone. (Nods head).	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford criteria do not in and of itself allow for a causal allow for causal inference. Q. So as an example, if you only talk about strength of association there being a relative risk or odds ratio that is considered to satisfy that analysis to be strong or without identifying or comparing the literature on whether that can be explained by other reasons, that would not be a valid result? A. That's correct. If I believe that a risk estimate of 1.5 could potentially be
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such criteria does not exist." You see where I'm reading? A. Yes, I do. MR. TISI: Let me just object to your characterization as a criteria, but go ahead. BY MR. HEGARTY: Q. You then go on in the next two paragraphs to essentially say there is no checklist for causal inference, correct? A. Alone. (Nods head). Q. I read this summary as rejecting	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford criteria do not in and of itself allow for a causal allow for causal inference. Q. So as an example, if you only talk about strength of association there being a relative risk or odds ratio that is considered to satisfy that analysis to be strong or without identifying or comparing the literature on whether that can be explained by other reasons, that would not be a valid result? A. That's correct. If I believe that a risk estimate of 1.5 could potentially be explained by confounding that was not considered
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such criteria does not exist." You see where I'm reading? A. Yes, I do. MR. TISI: Let me just object to your characterization as a criteria, but go ahead. BY MR. HEGARTY: Q. You then go on in the next two paragraphs to essentially say there is no checklist for causal inference, correct? A. Alone. (Nods head). Q. I read this summary as rejecting or let me start over again.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford criteria do not in and of itself allow for a causal allow for causal inference. Q. So as an example, if you only talk about strength of association there being a relative risk or odds ratio that is considered to satisfy that analysis to be strong or without identifying or comparing the literature on whether that can be explained by other reasons, that would not be a valid result? A. That's correct. If I believe that a risk estimate of 1.5 could potentially be explained by confounding that was not considered or misclassification of the exposure that was
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such criteria does not exist." You see where I'm reading? A. Yes, I do. MR. TISI: Let me just object to your characterization as a criteria, but go ahead. BY MR. HEGARTY: Q. You then go on in the next two paragraphs to essentially say there is no checklist for causal inference, correct? A. Alone. (Nods head). Q. I read this summary as rejecting or let me start over again. My interpretation of this section is that you are not applying the Bradford-Hill	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford criteria do not in and of itself allow for a causal allow for causal inference. Q. So as an example, if you only talk about strength of association there being a relative risk or odds ratio that is considered to satisfy that analysis to be strong or without identifying or comparing the literature on whether that can be explained by other reasons, that would not be a valid result? A. That's correct. If I believe that a risk estimate of 1.5 could potentially be explained by confounding that was not considered or misclassification of the exposure that was being used to assess that and to calculate that particular estimate of risk, then I would not
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such criteria does not exist." You see where I'm reading? A. Yes, I do. MR. TISI: Let me just object to your characterization as a criteria, but go ahead. BY MR. HEGARTY: Q. You then go on in the next two paragraphs to essentially say there is no checklist for causal inference, correct? A. Alone. (Nods head). Q. I read this summary as rejecting or let me start over again. My interpretation of this section is that you are not applying the Bradford-Hill criteria but a criteria that, as you say, is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford criteria do not in and of itself allow for a causal allow for causal inference. Q. So as an example, if you only talk about strength of association there being a relative risk or odds ratio that is considered to satisfy that analysis to be strong or without identifying or comparing the literature on whether that can be explained by other reasons, that would not be a valid result? A. That's correct. If I believe that a risk estimate of 1.5 could potentially be explained by confounding that was not considered or misclassification of the exposure that was being used to assess that and to calculate that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such criteria does not exist." You see where I'm reading? A. Yes, I do. MR. TISI: Let me just object to your characterization as a criteria, but go ahead. BY MR. HEGARTY: Q. You then go on in the next two paragraphs to essentially say there is no checklist for causal inference, correct? A. Alone. (Nods head). Q. I read this summary as rejecting or let me start over again. My interpretation of this section is that you are not applying the Bradford-Hill criteria but a criteria that, as you say, is focused on posing non-causal explanations to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford criteria do not in and of itself allow for a causal allow for causal inference. Q. So as an example, if you only talk about strength of association there being a relative risk or odds ratio that is considered to satisfy that analysis to be strong or without identifying or comparing the literature on whether that can be explained by other reasons, that would not be a valid result? A. That's correct. If I believe that a risk estimate of 1.5 could potentially be explained by confounding that was not considered or misclassification of the exposure that was being used to assess that and to calculate that particular estimate of risk, then I would not just because it's a 1.5 with a confidence interval
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such criteria does not exist." You see where I'm reading? A. Yes, I do. MR. TISI: Let me just object to your characterization as a criteria, but go ahead. BY MR. HEGARTY: Q. You then go on in the next two paragraphs to essentially say there is no checklist for causal inference, correct? A. Alone. (Nods head). Q. I read this summary as rejecting or let me start over again. My interpretation of this section is that you are not applying the Bradford-Hill criteria but a criteria that, as you say, is focused on posing non-causal explanations to account for the association.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford criteria do not in and of itself allow for a causal allow for causal inference. Q. So as an example, if you only talk about strength of association there being a relative risk or odds ratio that is considered to satisfy that analysis to be strong or without identifying or comparing the literature on whether that can be explained by other reasons, that would not be a valid result? A. That's correct. If I believe that a risk estimate of 1.5 could potentially be explained by confounding that was not considered or misclassification of the exposure that was being used to assess that and to calculate that particular estimate of risk, then I would not just because it's a 1.5 with a confidence interval that includes 1.0 doesn't necessarily mean that I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	end of the first paragraph you write: "Unfortunately, despite the fact that purported lists of causal criteria have been proposed and implemented, a valid set of such criteria does not exist." You see where I'm reading? A. Yes, I do. MR. TISI: Let me just object to your characterization as a criteria, but go ahead. BY MR. HEGARTY: Q. You then go on in the next two paragraphs to essentially say there is no checklist for causal inference, correct? A. Alone. (Nods head). Q. I read this summary as rejecting or let me start over again. My interpretation of this section is that you are not applying the Bradford-Hill criteria but a criteria that, as you say, is focused on posing non-causal explanations to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	unreliable result? A. I think if you only do a checklist without taking into account how that data was obtained, then, yes, I believe the Bradford criteria do not in and of itself allow for a causal allow for causal inference. Q. So as an example, if you only talk about strength of association there being a relative risk or odds ratio that is considered to satisfy that analysis to be strong or without identifying or comparing the literature on whether that can be explained by other reasons, that would not be a valid result? A. That's correct. If I believe that a risk estimate of 1.5 could potentially be explained by confounding that was not considered or misclassification of the exposure that was being used to assess that and to calculate that particular estimate of risk, then I would not just because it's a 1.5 with a confidence interval that includes 1.0 doesn't necessarily mean that I would believe that it meets the criteria for

- 1 I can't come up with any other explanation for why
- 2 we see this association for me to then believe
- 3 that the magnitude of the association is
- 4 believable.
- 5 Q. In your report, you don't walk
- 6 through and discuss each of the nine Bradford-Hill
- 7 factors or criteria, or however you called it,
- 8 that he set out in his statement, correct?
- 9 A. That's correct.
- 10 Q. For example, you don't talk about
- 11 temporality or experiment. All those other -- all
- 12 the factors, correct?
- 13 A. I -- well, I don't talk about the
- 14 ones that are obviously in place. For example, I
- 15 don't think anybody would believe that ovarian
- 16 cancer leads one to initiate exposure to talc and
- 17 so, therefore, temporality I think seems
- 18 reasonably obvious.
- 19 So we chose to focus on the ones
- 20 that were most contested by colleagues.
- Q. What are the ones that are most
- 22 contested that you focused on?
- A. Well, certainly the -- the magnitude
- 24 of the association, dose response where it could
 -
 - Page 235
- 1 be occurred -- would occur, the biological
- 2 plausibility, the consistency of the findings
- 3 across studies. Those are certainly the ones that
- 4 we focused on mostly and, in particular, how the
- 5 assessment of the exposure could have influenced
- 6 all of those factors.
- 7 Q. You mentioned early on in the
- 8 deposition that you did your own literature
- 9 search, correct?
- 10 A. Yes.
- 11 Q. Did anyone assist you in doing that?
- 12 A. No.
- 13 Q. What literature engines or tools did
- 14 you use?
- 15 A. I used PubMed, Medline.
- 16 Q. Did you prepare in advance a
- 17 protocol for how you were going to research the
- 18 literature?
- 19 A. No, but I've been researching
- 20 literature for an awful long time. (Laugh). I
- 21 don't think I need a protocol at this point.
- Q. With regard to the materials you
- 23 identified from that literature search, did you
- 24 read them all in their entirety?

- y 1 A. I read the ones that I thought were
 - 2 most appropriate. So, for example, case series I
 - 3 did not put a lot of stock into. I looked at
 - 4 certain commentaries to see whether or not they
 - 5 were specifically addressing the issue of talc.
 - 6 So I was selective in looking at all
 - 7 observational studies and, frankly, there hasn't
 - 8 been any new data collection -- new primary data
 - 9 collection from what I could tell since 2016. So
 - 10 most of the literature that's been published since
 - 11 then has been meta-analyses or reanalyses of
 - 12 existing data.
 - 13 Q. In evaluating the studies either
 - 14 from your own search or from what you otherwise
 - 15 had or been provided, did you assess the strengths
 - 16 and weaknesses in each paper?
 - 17 A. I believe I did.
 - 18 Q. Did you assign a weight or a
 - 19 numerical value to the -- to each paper?
 - 20 A. No. No, I did not. I -- unless --
 - 21 well, I looked at each paper as its own
 - 22 contribution and what the strengths and
 - 23 limitations were and made a decision on its
 - 24 scientific validity.

Page 237

Page 236

- 1 I didn't say this one gets ranked as
- 2 a 10; this one gets ranked as a 5. Instead, I
- 3 looked at those that were obviously flawed in my
- 4 view versus those that, after an extensive review
- 5 of the data that was available, I felt that the
- 6 findings were believable.
- 7 Q. As of the time you started this
- 8 process in preparing your report, had you read all
- 9 of the case-control studies on talc and ovarian
- 10 cancer?
- 11 A. No, I hadn't.
- 12 Q. At the time you started this process
- 13 of preparing your expert report, had you read all
- 14 the cohort studies on talc and ovarian cancer?
- 15 A. I believe I had read the Gertig one
- 16 in the past, but the one from the Sister Study and
- 17 the one from the WHI I hadn't read.
- 18 Q. Had you read the O'Brien 2020
- 19 meta-analysis or pooled analysis of the four
- 20 cohorts before you were contacted by plaintiffs'
- 21 counsel -- by plaintiffs' counsel about
- 22 participating in this litigation as an expert?
- A. Yes, I did.
 - Q. Had you read all the meta-analyses

24

	1
Page 23	
1 regarding talc and ovarian cancer prior to	1 Johnson & Johnson has produced as part of this
2 starting this process of preparing your expert	2 case, have you reviewed any of them?
3 report?	3 A. I have not that I'm aware of and I'd
4 A. No, I did not.	4 love to.
5 Q. In particular, had you read	5 Q. So would it be a fair statement
6 Penninkilampi before you started this process?	6 that, as of today, you have not done a
7 A. Yeah. No.	7 comprehensive analysis of the available asbestos
8 Q. Had you read Taher before you	8 testing documents that have been provided in this
9 started this process?	9 litigation?
10 A. No.	10 MR. TISI: Objection.
11 Q. Had you read Berge before you	11 Misstates his report.
12 started this process?	12 THE WITNESS: Yeah, I've
13 A. No, I hadn't.	13 reviewed. Anything that's been in the
14 Q. As part of your work on this case,	scientific literature I've seen and the
15 have you reviewed any documents, that is internal	Longo report that was provided to me.
16 documents, produced by Johnson & Johnson?	16 BY MR. HEGARTY:
17 A. No, not that I'm aware of.	17 Q. But as far as the asbestos testing
18 Q. In particular as to the documents	18 documents that Johnson & Johnson has produced in
19 produced by Johnson & Johnson, have you reviewed	19 this case, you have not reviewed?
20 have you reviewed any of the asbestos testing	20 A. No.
21 documents that Johnson & Johnson has produced in	21 MR. TISI: Objection.
22 this case?	22 Let me just
23 A. I I don't recall. I don't I	23 THE WITNESS: Yeah.
24 don't I don't recall.	24 MR. TISI: Let me just place
Page 23'	Page 241
Page 239	_
1 MR. TISI: Let me just clarify	1 an objection.
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with	1 an objection.
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the	 an objection. Misstates his report. BY MR. HEGARTY:
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not	 an objection. Misstates his report. BY MR. HEGARTY: Q. You can answer.
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on	 an objection. Misstates his report. BY MR. HEGARTY: Q. You can answer. A. To my knowledge, I have not seen
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on 6 that. That was that was a J&J or PCPC	 an objection. Misstates his report. BY MR. HEGARTY: Q. You can answer. A. To my knowledge, I have not seen testing that was specifically done by Johnson &
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on 6 that. That was that was a J&J or PCPC 7 report.	 an objection. Misstates his report. BY MR. HEGARTY: Q. You can answer. A. To my knowledge, I have not seen testing that was specifically done by Johnson & Johnson.
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on 6 that. That was that was a J&J or PCPC 7 report. 8 MR. HEGARTY: I understand.	 an objection. Misstates his report. BY MR. HEGARTY: Q. You can answer. A. To my knowledge, I have not seen testing that was specifically done by Johnson & Johnson. Q. You said you would like to see that.
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on 6 that. That was that was a J&J or PCPC 7 report. 8 MR. HEGARTY: I understand. 9 My question	1 an objection. 2 Misstates his report. 3 BY MR. HEGARTY: 4 Q. You can answer. 5 A. To my knowledge, I have not seen 6 testing that was specifically done by Johnson & 7 Johnson. 8 Q. You said you would like to see that. 9 Why would you like to see it?
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on 6 that. That was that was a J&J or PCPC 7 report. 8 MR. HEGARTY: I understand. 9 My question 10 THE WITNESS: Oh.	 an objection. Misstates his report. BY MR. HEGARTY: Q. You can answer. A. To my knowledge, I have not seen testing that was specifically done by Johnson & Johnson. Q. You said you would like to see that. Why would you like to see it? A. Well, I'd like to see the methods
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on 6 that. That was that was a J&J or PCPC 7 report. 8 MR. HEGARTY: I understand. 9 My question 10 THE WITNESS: Oh. 11 MR. HEGARTY: My question is	1 an objection. 2 Misstates his report. 3 BY MR. HEGARTY: 4 Q. You can answer. 5 A. To my knowledge, I have not seen 6 testing that was specifically done by Johnson & 7 Johnson. 8 Q. You said you would like to see that. 9 Why would you like to see it? 10 A. Well, I'd like to see the methods 11 that they used. I'd like to compare them to the
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on 6 that. That was that was a J&J or PCPC 7 report. 8 MR. HEGARTY: I understand. 9 My question 10 THE WITNESS: Oh. 11 MR. HEGARTY: My question is 12 of the laboratory testing results.	1 an objection. 2 Misstates his report. 3 BY MR. HEGARTY: 4 Q. You can answer. 5 A. To my knowledge, I have not seen 6 testing that was specifically done by Johnson & 7 Johnson. 8 Q. You said you would like to see that. 9 Why would you like to see it? 10 A. Well, I'd like to see the methods 11 that they used. I'd like to compare them to the 12 way in which it was done by other by others.
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on 6 that. That was that was a J&J or PCPC 7 report. 8 MR. HEGARTY: I understand. 9 My question 10 THE WITNESS: Oh. 11 MR. HEGARTY: My question is 12 of the laboratory testing results. 13 MR. TISI: No, it was the	1 an objection. 2 Misstates his report. 3 BY MR. HEGARTY: 4 Q. You can answer. 5 A. To my knowledge, I have not seen 6 testing that was specifically done by Johnson & 7 Johnson. 8 Q. You said you would like to see that. 9 Why would you like to see it? 10 A. Well, I'd like to see the methods 11 that they used. I'd like to compare them to the 12 way in which it was done by other by others. 13 I'd like to know whether the the limit of
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on 6 that. That was that was a J&J or PCPC 7 report. 8 MR. HEGARTY: I understand. 9 My question 10 THE WITNESS: Oh. 11 MR. HEGARTY: My question is 12 of the laboratory testing results. 13 MR. TISI: No, it was the 14 question before you asked.	1 an objection. 2 Misstates his report. 3 BY MR. HEGARTY: 4 Q. You can answer. 5 A. To my knowledge, I have not seen 6 testing that was specifically done by Johnson & 7 Johnson. 8 Q. You said you would like to see that. 9 Why would you like to see it? 10 A. Well, I'd like to see the methods 11 that they used. I'd like to compare them to the 12 way in which it was done by other by others. 13 I'd like to know whether the the limit of 14 detection was the same. I mean, I would want to
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on 6 that. That was that was a J&J or PCPC 7 report. 8 MR. HEGARTY: I understand. 9 My question 10 THE WITNESS: Oh. 11 MR. HEGARTY: My question is 12 of the laboratory testing results. 13 MR. TISI: No, it was the 14 question before you asked. 15 MR. HEGARTY: Okay.	1 an objection. 2 Misstates his report. 3 BY MR. HEGARTY: 4 Q. You can answer. 5 A. To my knowledge, I have not seen 6 testing that was specifically done by Johnson & 7 Johnson. 8 Q. You said you would like to see that. 9 Why would you like to see it? 10 A. Well, I'd like to see the methods 11 that they used. I'd like to compare them to the 12 way in which it was done by other by others. 13 I'd like to know whether the the limit of 14 detection was the same. I mean, I would want to 15 just basically evaluate it like any other
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on 6 that. That was that was a J&J or PCPC 7 report. 8 MR. HEGARTY: I understand. 9 My question 10 THE WITNESS: Oh. 11 MR. HEGARTY: My question is 12 of the laboratory testing results. 13 MR. TISI: No, it was the 14 question before you asked. 15 MR. HEGARTY: Okay. 16 MR. TISI: Any documents	1 an objection. 2 Misstates his report. 3 BY MR. HEGARTY: 4 Q. You can answer. 5 A. To my knowledge, I have not seen 6 testing that was specifically done by Johnson & 7 Johnson. 8 Q. You said you would like to see that. 9 Why would you like to see it? 10 A. Well, I'd like to see the methods 11 that they used. I'd like to compare them to the 12 way in which it was done by other by others. 13 I'd like to know whether the the limit of 14 detection was the same. I mean, I would want to 15 just basically evaluate it like any other 16 epidemiologist might.
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on 6 that. That was that was a J&J or PCPC 7 report. 8 MR. HEGARTY: I understand. 9 My question 10 THE WITNESS: Oh. 11 MR. HEGARTY: My question is 12 of the laboratory testing results. 13 MR. TISI: No, it was the 14 question before you asked. 15 MR. HEGARTY: Okay. 16 MR. TISI: Any documents 17 provided in the litigation. I just	1 an objection. 2 Misstates his report. 3 BY MR. HEGARTY: 4 Q. You can answer. 5 A. To my knowledge, I have not seen 6 testing that was specifically done by Johnson & 7 Johnson. 8 Q. You said you would like to see that. 9 Why would you like to see it? 10 A. Well, I'd like to see the methods 11 that they used. I'd like to compare them to the 12 way in which it was done by other by others. 13 I'd like to know whether the the limit of 14 detection was the same. I mean, I would want to 15 just basically evaluate it like any other 16 epidemiologist might. 17 Q. The testing that has been done with
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on 6 that. That was that was a J&J or PCPC 7 report. 8 MR. HEGARTY: I understand. 9 My question 10 THE WITNESS: Oh. 11 MR. HEGARTY: My question is 12 of the laboratory testing results. 13 MR. TISI: No, it was the 14 question before you asked. 15 MR. HEGARTY: Okay. 16 MR. TISI: Any documents 17 provided in the litigation. I just 18 wanted to.	1 an objection. 2 Misstates his report. 3 BY MR. HEGARTY: 4 Q. You can answer. 5 A. To my knowledge, I have not seen 6 testing that was specifically done by Johnson & 7 Johnson. 8 Q. You said you would like to see that. 9 Why would you like to see it? 10 A. Well, I'd like to see the methods 11 that they used. I'd like to compare them to the 12 way in which it was done by other by others. 13 I'd like to know whether the the limit of 14 detection was the same. I mean, I would want to 15 just basically evaluate it like any other 16 epidemiologist might. 17 Q. The testing that has been done with 18 regard to talc and asbestos includes such methods
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on 6 that. That was that was a J&J or PCPC 7 report. 8 MR. HEGARTY: I understand. 9 My question 10 THE WITNESS: Oh. 11 MR. HEGARTY: My question is 12 of the laboratory testing results. 13 MR. TISI: No, it was the 14 question before you asked. 15 MR. HEGARTY: Okay. 16 MR. HEGARTY: Okay. 17 provided in the litigation. I just 18 wanted to. 19 MR. HEGARTY: Okay. I	1 an objection. 2 Misstates his report. 3 BY MR. HEGARTY: 4 Q. You can answer. 5 A. To my knowledge, I have not seen 6 testing that was specifically done by Johnson & 7 Johnson. 8 Q. You said you would like to see that. 9 Why would you like to see it? 10 A. Well, I'd like to see the methods 11 that they used. I'd like to compare them to the 12 way in which it was done by other by others. 13 I'd like to know whether the the limit of 14 detection was the same. I mean, I would want to 15 just basically evaluate it like any other 16 epidemiologist might. 17 Q. The testing that has been done with 18 regard to talc and asbestos includes such methods 19 as TEM, XRD, PLM.
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on 6 that. That was that was a J&J or PCPC 7 report. 8 MR. HEGARTY: I understand. 9 My question 10 THE WITNESS: Oh. 11 MR. HEGARTY: My question is 12 of the laboratory testing results. 13 MR. TISI: No, it was the 14 question before you asked. 15 MR. HEGARTY: Okay. 16 MR. TISI: Any documents 17 provided in the litigation. I just 18 wanted to. 19 MR. HEGARTY: Okay. I 20 apologize.	1 an objection. 2 Misstates his report. 3 BY MR. HEGARTY: 4 Q. You can answer. 5 A. To my knowledge, I have not seen 6 testing that was specifically done by Johnson & 7 Johnson. 8 Q. You said you would like to see that. 9 Why would you like to see it? 10 A. Well, I'd like to see the methods 11 that they used. I'd like to compare them to the 12 way in which it was done by other by others. 13 I'd like to know whether the the limit of 14 detection was the same. I mean, I would want to 15 just basically evaluate it like any other 16 epidemiologist might. 17 Q. The testing that has been done with 18 regard to talc and asbestos includes such methods 19 as TEM, XRD, PLM. 20 Are you an expert in any of those
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on 6 that. That was that was a J&J or PCPC 7 report. 8 MR. HEGARTY: I understand. 9 My question 10 THE WITNESS: Oh. 11 MR. HEGARTY: My question is 12 of the laboratory testing results. 13 MR. TISI: No, it was the 14 question before you asked. 15 MR. HEGARTY: Okay. 16 MR. HEGARTY: Okay. 17 provided in the litigation. I just 18 wanted to. 19 MR. HEGARTY: Okay. I 20 apologize. 21 THE WITNESS: I yeah.	1 an objection. 2 Misstates his report. 3 BY MR. HEGARTY: 4 Q. You can answer. 5 A. To my knowledge, I have not seen 6 testing that was specifically done by Johnson & 7 Johnson. 8 Q. You said you would like to see that. 9 Why would you like to see it? 10 A. Well, I'd like to see the methods 11 that they used. I'd like to compare them to the 12 way in which it was done by other by others. 13 I'd like to know whether the the limit of 14 detection was the same. I mean, I would want to 15 just basically evaluate it like any other 16 epidemiologist might. 17 Q. The testing that has been done with 18 regard to talc and asbestos includes such methods 19 as TEM, XRD, PLM. 20 Are you an expert in any of those 21 methods?
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on 6 that. That was that was a J&J or PCPC 7 report. 8 MR. HEGARTY: I understand. 9 My question 10 THE WITNESS: Oh. 11 MR. HEGARTY: My question is 12 of the laboratory testing results. 13 MR. TISI: No, it was the 14 question before you asked. 15 MR. HEGARTY: Okay. 16 MR. HEGARTY: Okay. 17 provided in the litigation. I just 18 wanted to. 19 MR. HEGARTY: Okay. I 20 apologize. 21 THE WITNESS: I yeah. 22 BY MR. HEGARTY:	1 an objection. 2 Misstates his report. 3 BY MR. HEGARTY: 4 Q. You can answer. 5 A. To my knowledge, I have not seen 6 testing that was specifically done by Johnson & 7 Johnson. 8 Q. You said you would like to see that. 9 Why would you like to see it? 10 A. Well, I'd like to see the methods 11 that they used. I'd like to compare them to the 12 way in which it was done by other by others. 13 I'd like to know whether the the limit of 14 detection was the same. I mean, I would want to 15 just basically evaluate it like any other 16 epidemiologist might. 17 Q. The testing that has been done with 18 regard to talc and asbestos includes such methods 19 as TEM, XRD, PLM. 20 Are you an expert in any of those 21 methods? 22 A. No, I'm not.
1 MR. TISI: Let me just clarify 2 this so you know. He was provided with 3 the Rothman report which came from the 4 litigation in this case, which was not 5 published. I just wanted to be clear on 6 that. That was that was a J&J or PCPC 7 report. 8 MR. HEGARTY: I understand. 9 My question 10 THE WITNESS: Oh. 11 MR. HEGARTY: My question is 12 of the laboratory testing results. 13 MR. TISI: No, it was the 14 question before you asked. 15 MR. HEGARTY: Okay. 16 MR. HEGARTY: Okay. 17 provided in the litigation. I just 18 wanted to. 19 MR. HEGARTY: Okay. I 20 apologize. 21 THE WITNESS: I yeah.	1 an objection. 2 Misstates his report. 3 BY MR. HEGARTY: 4 Q. You can answer. 5 A. To my knowledge, I have not seen 6 testing that was specifically done by Johnson & 7 Johnson. 8 Q. You said you would like to see that. 9 Why would you like to see it? 10 A. Well, I'd like to see the methods 11 that they used. I'd like to compare them to the 12 way in which it was done by other by others. 13 I'd like to know whether the the limit of 14 detection was the same. I mean, I would want to 15 just basically evaluate it like any other 16 epidemiologist might. 17 Q. The testing that has been done with 18 regard to talc and asbestos includes such methods 19 as TEM, XRD, PLM. 20 Are you an expert in any of those 21 methods?

1	Page 242 Health Canada, correct?	1	Page 244 has said with regard to talcum powder use and
$\frac{1}{2}$			ovarian cancer in your report?
3	•	3	A. I don't know if it was if I had
4		_	that available at the time of writing the report.
5	talc and ovarian cancer?	5	Q. When you say you had "that," you're
6			talking about the FDA denial of the Citizen
7	· ·		Petition letter?
8	3	8	A. Correct.
9		9	Q. Sitting here today, do you know if
10		_	you had it when you prepared your report?
11	MR. TISI: If you need to look	11	A. Honestly, I don't I don't recall,
12	at your report		but the problem is, is that was not a scientific
13	THE WITNESS: Yeah.		process. It was merely stating certain certain
14			making certain statements that were not
15	that.		referenced or was not peer-reviewed or I had no
16	THE WITNESS: (Reviews		idea how that response was determined, and all -
17	document.)		everything that I have reviewed in here has some
18	<i>'</i>		scientific basis behind it.
19	·	19	So even if I had it, I'm not sure I
20	• •	20	would have included it as evidence one way or
21	MR. HEGARTY: Well, my		another. Because in the report, in the response,
22	question		they say this has not been found, or this has not
23	MR. TISI: He does cite it in	23	been found, or this is the case of something; but
24	Section B.	24	there is no evidence behind those statements.
	Page 243		Page 245
1	BY MR. HEGARTY:	1	So I'm not sure it would have met
2		2	the inclusion criteria for the work the work
3		_	that I evaluated.
	report yourself of any FDA findings as relates to		Q. For purposes of your methodology,
	talc and ovarian cancer?		what was the inclusion criteria for you to comment
6	3	6	on something in your report?
7	1	7	A. Scientifically reviewed evidence in
8	•		the scientific literature or or the Health
9	1		Canada report which I included because that had
10	,	10	been peer-reviewed by externally. And things such
11	THE WITNESS: Yeah. No, I did	11	
12	, , , , , , , , , , , , , , , , , , ,	12	MR. HEGARTY: Let's look at a
13	*	13	couple of things that FDA has said with
14		14	regard to talc and ovarian cancer, one of
1	BY MR. HEGARTY:	15	which you already mentioned, and I'll
16	, ,	16	mark that next.
	to Health Canada and IARC but not to FDA as it		But first I wanted to mark as
	relates to talc and ovarian cancer?	18	Exhibit 15 a printout from FDA's website
19	3	19	as it relates to talc and ovarian cancer.
20		20	(Document marked for
21	THE WITNESS: No, it was not	21	identification as Harlow Exhibit 15.)
22	,		BY MR. HEGARTY:
	BY MR. HEGARTY:	23	Q. And, first of all, I'll just ask
24	Q. Why did you not refer to what FDA	24	you: Have you ever looked on FDA's website and

	Page 246		Page 248
1	determined what FDA says about talc and ovarian	1	reviewing scientific literature and why. Now I'll
	cancer?		add to my question.
3	A. I haven't.	3	Is that not worth referencing in
4	MR. TISI: I'm sorry. What		your report?
5	did you say this is? What are we up to?	5	A. I have no there's no evidence as
6	MR. HEGARTY: We're at 15.		to how are they made that evaluation. So I no.
7	BY MR. HEGARTY:	7	My report was based on the
8	Q. Please turn over to the next page of		scientific literature, not what somebody says
9		9	
10	Do you see the second paragraph	10	Q. You do make reference in your report
	beginning "Published scientific literature"?		to review articles, though, correct?
12	A. I'm sorry. On page 2? Yes,	12	-
	"Published scientific literature." Yes.		review articles, but those review articles are
14			peer-reviewed in the scientific literature.
		15	MR. HEGARTY: Let me show
16	April 3, 2024 says: "Published scientific literature	16	
		17	you THE WITNESS: Are we done
	going back to the 1960s has suggested a possible	18	with this?
1	association between the use of powders containing	19	MR. HEGARTY: We're done with
	talc in the genital area and the incidence of		
	ovarian cancer. However, these studies have not	20	that document.
1	conclusively demonstrated such a link, or if such	21	THE WITNESS: Okay.
	a link existed, what risk factors might be	22	MR. HEGARTY: Let me show you
	involved."	23	next the FDA rejection letter of the
24	Did I read that correctly?	24	Citizen Petitions that we talked about
1	Page 247	1	Page 249
$\frac{1}{2}$	A. That's what's written, yes.	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	just a moment ago.
$\frac{2}{2}$	Q. That is a statement that does make	2	THE WITNESS: Yeah.
	reference to FDA reviewing the scientific literature, correct?	3 4	MR. HEGARTY: I marked it as
	•		Exhibit 16.
5	,	5	(Document marked for
_	statement on.	6	identification as Harlow Exhibit 16.)
7	MR. TISI: Can we take I've	7	THE WITNESS: Right.
8	•	8	MR. TISI: I'm not sure I've
9	•	9	seen this before.
10	•		BY MR. HEGARTY:
11	MR. TISI: Yeah, I've got	11	Q. Have you read before right now,
12		1	Doctor, Exhibit 16?
13		13	A. I have.
14		14	Q. And now looking at it, do you
15	•		remember when you first read Exhibit 16 in
16	* '	1	relation to today?
17	C	17	A. I did not I do not believe I
18		1	looked I used this. I'm not sure if I had this
	BY MR. HEGARTY:	1	or referred to it in generating my report.
20	, ,	20	Q. You mentioned a moment ago that you
	Number 15. You can put that exhibit first of		were aware that this was a letter issued in
	all, did you finish your answer to my question?		response to a Citizen Petition.
23	My question was as it relates to	23	
	what FDA said in that it refers specifically to	24	Q. And as you can see in the first

		Page 250			Page 252
1	naragrar	Page 250 oh, it actually refers to two Citizen	1	Number 16?	Page 252
	Petitions	· · · · · · · · · · · · · · · · · · ·	2		om Mr. Tisi.
3	A.	Okay.	3		ere you aware back in 2014 that FDA
4	Q.	Do you see that?	_	had issued th	•
5	A.	Yes.	5	A. No	
6	Q.	Those Citizen Petitions were seeking	6		or to your understanding let
7	_	s with regard to talcum powder use and			sk a different way.
8	_	cancer, correct?	8		re you aware of this letter prior
9	0 / 4121412	MR. TISI: Objection.			tacted by plaintiffs' counsel about
10	Mis	characterizes. Seeking to make FDA		_	n expert witness in this litigation?
11		ire a warning, which is different.	11	_	vas not aware.
12	_	HEGARTY:	12		ease turn over in Exhibit 16 to
13	Q.	You can answer.	13	-	ually, it starts at page 3 and then
14	A.	Well, this is what it specifically		carries over t	
15	says, for	the FDA to require a cancer warning on			n-huh.
	•	e tale products.	16		you see on those two pages where
17	Q.	Looking at the first page of	17	_	ribing the findings of the NTP animal
18	_	16, the third paragraph, FDA says in this			
19	letter:		19	A. Uh	n-huh.
20		"After careful review"	20	Q. Ye	es, Doctor?
21	A.	This is right here? This paragraph?	21	A. Ye	es. Yes.
22	Q.	Yes, right here.	22	Q. Ha	ive you read the 1993 NTP animal
23	A.	Got it.	23	study?	•
24	Q.	"After careful review and	24	A. Ih	ave not.
		Page 251			Page 253
1	considera	tion of the information submitted in your	1	Q. Do	you see where, after talking
2	Petitions,	the comments received in response to	2	about that stu	ıdy, on page 4 FDA says that:
3	the Petitio	ons, and review of additional scientific	3	"In l	light of these shortcomings, a
4	informati	on, this letter is to advise you that FDA	4	panel of expe	erts at the 1994 ISRTP/FDA workshop
5	is denying	g your Petitions. FDA did not find that	5	declared that	the 1993 NTP study had no relevance
6	the data s	submitted presented conclusive evidence	6	to human risl	k."
		al association between talc use in the	7	-	you see where I'm reading?
8	perineal a	area and ovarian cancer."	8	A. I de	
9		First of all, did I read that	9	_	you recall from your
	correctly'				in that 1994 ISRTP FDA workshop wha
11	A.	That is what it is said.			ut the 1993 NTP study?
12	Q.	Did you review the Citizen Petitions	12		on't recall, but I would have to
		es and see what they provided to FDA in			inutes of the excerpt from the
		f those petitions?			eting itself to see specifically what
15	A.	I did not.		was stated.	
16	Q.	Do you understand, sitting here	16		oking at the next paragraph, the
	•	at those are available and you can		letter says:	1100
		e what they provided to FDA?	18		addition, we reviewed relevant
19	A.	I didn't know that they were		-	ature (consisting of 15 articles
	available				2008), not cited in your Petitions,
21	Q.	Please turn over next first of			if there was additional support at
		e we go there.			time to for your suggested warning
23		How did you obtain for purposes of		label."	a this statement from EDA -f
∠4	your revi	ew the letter we're looking at, Exhibit	24	Doe	s this statement from FDA of

	Page 254		Page 256
1	their reviewing 15 articles from 1980 to 2008 not	1	this section before today?
	satisfy your criteria for including a reference to	2	A. I have.
	this letter in your report?	3	Q. This section begins:
4	A. Well, I don't know. They basically	4	"Your third major point is that
5			epidemiological studies confirm the causal
	in the committee's petition "to determine if there		relation between genital application of talc and
	was additional support at this time to for your		ovarian cancer, and the protective effect of tubal
	suggested" scientific literature studies of acute		ligation or hysterectomy, preventing the
9			translocation of talc to the ovary."
10	additional support at this point in time for your	10	Did I read that correctly?
	suggested warning label."	11	A. You did.
12	I don't know how they made that	12	Q. The letter goes on to say:
13	decision that there was not not enough evidence	13	"After consideration of the
	to come to this conclusion because I don't know	14	scientific literature submitted in support of both
15	what the 15 articles are, and they're not cited in	15	
	this report.	16	MR. TISI: You know, honestly,
17	So I would love to be able to look	17	you're going really fast. Can you just
18	at those and to be able to determine whether they	18	slow down? Read it.
	made a decision that was based on on reliable	19	And he's actually in the
20	and scientifically valid evidence in those 15	20	process of reading while you're asking a
	articles.	21	question. Read what you want to read and
22	Q. For purposes of your report, did you	22	then allow him to ask the question, but
23	do a comprehensive review of the toxicity	23	don't just speed read to him and ask him
24	literature with regard to talcum powder exposure?	24	if he agrees with it.
	Page 255		Page 257
1	A. I didn't need to do that in order to	1	BY MR. HEGARTY:
2	be able to assess biological plausibility.	2	Q. Doctor, was I reading too fast for
3	Q. So you did not do that?	3	you?
4	A. Correct.	4	A. You can read at whatever speed, and
5	Q. Look under the section "Epidemiology	5	I will take as much time as I need to be able to
6	and Etiology Findings."	6	make sure that I digest the information.
7	MR. TISI: If you need to read	7	MR. TISI: And he's reading.
8	it, just take the time.	8	I'm watching him.
9	BY MR. HEGARTY:	9	BY MR. HEGARTY:
10	1 0 1	10	Q. And you will tell me if you need
11	MR. TISI: Just a second.		more time?
12	·	12	MR. TISI: And the record will
13		13	reflect he's reading as you're quoting to
14	,	14	him. He's got the paper in front of him
15	, ,	15	as he's reading the document. So let him
16	1 50	16	read it or quote to him, but don't do it
17	· · · · · · · · · · · · · · · · · · ·	17	at the same time, please.
18			BY MR. HEGARTY:
19		19	Q. FDA on this page we're looking at,
20	~	20	
21	€ €	21	MR. TISI: You're still doing
1	to do it, to do it.	22	it. Objection.
22	· · · · · · · · · · · · · · · · · · ·		
	BY MR. HEGARTY:	23 24	MR. HEGARTY: Fine. He'll tell me if he needs more time.

Page 258	Page 260
1 MR. TISI: No.	1 scientifically valid studies did show a dose
2 Are you reading the document,	2 response.
3 sir?	3 And just if I may?
4 THE WITNESS: I'm waiting.	4 Q. And I'm sorry.
5 I'm waiting to see what the question is.	5 A. With respect to lower confidence
6 MR. TISI: Okay.	6 intervals of 1.0, that does not mean that the risk
7 BY MR. HEGARTY:	
8 Q. Look at paragraph 2 on page 4. FDA	7 estimate is going to be 1.0. It just means 95 8 percent of the time it's going to be somewhere
9 writes:	9 between 1.0 and something greater, and so there is
	10 no reason to make the assumption that the
	11 association is null.
11 biases in the study design and no single study has	
12 considered all the factors that potentially	12 Q. The next paragraph, paragraph 4,
13 contribute to ovarian cancer, including selection	13 says:
14 bias and/or uncontrolled confounding that result	14 "A cogent biologic mechanism
15 in spurious positive association between talc use	15 biological mechanism by which talc might lead to
16 and ovarian cancer risk."	16 ovarian cancer is lacking."
Did I read that correctly?	Do you agree that that was an
18 A. You read that correctly.	18 accurate statement as of 2014?
19 Q. Do you agree that several studies	19 A. No, I do not.
20 acknowledge the biases that are commented in that	Q. Please turn over to the next page,
21 paragraph?	21 page 6.
22 A. I have no idea of what studies they	22 A. Oh, not page 5?
23 are referring to, so I can't comment on that. If	Q. I'm sorry. Page 5. Paragraph 6
24 they had cited what those studies were, then I	24 starts out by referring to the IARC finding.
Page 259	Page 261
_	
1 would be able to comment on it.	1 A. Yeah.
1 would be able to comment on it.2 Q. The next paragraph says:	 A. Yeah. Q. Do you see that?
 1 would be able to comment on it. 2 Q. The next paragraph says: 3 "Results of case-control studies do 	 A. Yeah. Q. Do you see that? A. I do.
 would be able to comment on it. Q. The next paragraph says: "Results of case-control studies do not demonstrate a consistent positive association 	 A. Yeah. Q. Do you see that? A. I do. Q. The letter then goes on to say:
 would be able to comment on it. Q. The next paragraph says: "Results of case-control studies do not demonstrate a consistent positive association across studies." 	 A. Yeah. Q. Do you see that? A. I do. Q. The letter then goes on to say: "But the results of the Nurses'
 1 would be able to comment on it. 2 Q. The next paragraph says: 3 "Results of case-control studies do 4 not demonstrate a consistent positive association 5 across studies." 6 Do you agree with that statement? 	 A. Yeah. Q. Do you see that? A. I do. Q. The letter then goes on to say: "But the results of the Nurses' Health Study, a large prospective cohort study,
 would be able to comment on it. Q. The next paragraph says: "Results of case-control studies do not demonstrate a consistent positive association across studies." Do you agree with that statement? A. No, I do not. 	 A. Yeah. Q. Do you see that? A. I do. Q. The letter then goes on to say: "But the results of the Nurses' Health Study, a large prospective cohort study, revealed no overall association with ever talc use
 would be able to comment on it. Q. The next paragraph says: "Results of case-control studies do not demonstrate a consistent positive association across studies." Do you agree with that statement? A. No, I do not. Q. The next statement says: 	 A. Yeah. Q. Do you see that? A. I do. Q. The letter then goes on to say: "But the results of the Nurses' Health Study, a large prospective cohort study, revealed no overall association with ever talc use and epithelial ovarian cancer."
 would be able to comment on it. Q. The next paragraph says: "Results of case-control studies do not demonstrate a consistent positive association across studies." Do you agree with that statement? A. No, I do not. Q. The next statement says: "Some studies have found small 	 A. Yeah. Q. Do you see that? A. I do. Q. The letter then goes on to say: "But the results of the Nurses' Health Study, a large prospective cohort study, revealed no overall association with ever talc use and epithelial ovarian cancer." That's a correct characterization of
 would be able to comment on it. Q. The next paragraph says: "Results of case-control studies do not demonstrate a consistent positive association across studies." Do you agree with that statement? A. No, I do not. Q. The next statement says: "Some studies have found small positive associations between talc and ovarian 	1 A. Yeah. 2 Q. Do you see that? 3 A. I do. 4 Q. The letter then goes on to say: 5 "But the results of the Nurses' 6 Health Study, a large prospective cohort study, 7 revealed no overall association with ever talc use 8 and epithelial ovarian cancer." 9 That's a correct characterization of 10 the Gertig study, correct?
 would be able to comment on it. Q. The next paragraph says: "Results of case-control studies do not demonstrate a consistent positive association across studies." Do you agree with that statement? A. No, I do not. Q. The next statement says: "Some studies have found small positive associations between talc and ovarian cancer but the lower confidence limits are often 	1 A. Yeah. 2 Q. Do you see that? 3 A. I do. 4 Q. The letter then goes on to say: 5 "But the results of the Nurses' 6 Health Study, a large prospective cohort study, 7 revealed no overall association with ever talc use 8 and epithelial ovarian cancer." 9 That's a correct characterization of 10 the Gertig study, correct? 11 A. I think I think it is a
 would be able to comment on it. Q. The next paragraph says: "Results of case-control studies do not demonstrate a consistent positive association across studies." Do you agree with that statement? A. No, I do not. Q. The next statement says: "Some studies have found small positive associations between talc and ovarian cancer but the lower confidence limits are often close to 1.0." 	1 A. Yeah. 2 Q. Do you see that? 3 A. I do. 4 Q. The letter then goes on to say: 5 "But the results of the Nurses' 6 Health Study, a large prospective cohort study, 7 revealed no overall association with ever talc use 8 and epithelial ovarian cancer." 9 That's a correct characterization of 10 the Gertig study, correct? 11 A. I think I think it is a 12 selected a selected component from the study
 would be able to comment on it. Q. The next paragraph says: "Results of case-control studies do not demonstrate a consistent positive association across studies." Do you agree with that statement? A. No, I do not. Q. The next statement says: "Some studies have found small positive associations between talc and ovarian cancer but the lower confidence limits are often close to 1.0." First, do you agree with that part 	1 A. Yeah. 2 Q. Do you see that? 3 A. I do. 4 Q. The letter then goes on to say: 5 "But the results of the Nurses' 6 Health Study, a large prospective cohort study, 7 revealed no overall association with ever talc use 8 and epithelial ovarian cancer." 9 That's a correct characterization of 10 the Gertig study, correct? 11 A. I think I think it is a 12 selected a selected component from the study 13 that misleads the public as to what the
1 would be able to comment on it. 2 Q. The next paragraph says: 3 "Results of case-control studies do 4 not demonstrate a consistent positive association 5 across studies." 6 Do you agree with that statement? 7 A. No, I do not. 8 Q. The next statement says: 9 "Some studies have found small 10 positive associations between talc and ovarian 11 cancer but the lower confidence limits are often 12 close to 1.0." 13 First, do you agree with that part 14 of that sentence?	1 A. Yeah. 2 Q. Do you see that? 3 A. I do. 4 Q. The letter then goes on to say: 5 "But the results of the Nurses' 6 Health Study, a large prospective cohort study, 7 revealed no overall association with ever talc use 8 and epithelial ovarian cancer." 9 That's a correct characterization of 10 the Gertig study, correct? 11 A. I think I think it is a 12 selected a selected component from the study 13 that misleads the public as to what the 14 association truly was across different
 would be able to comment on it. Q. The next paragraph says: "Results of case-control studies do not demonstrate a consistent positive association across studies." Do you agree with that statement? A. No, I do not. Q. The next statement says: "Some studies have found small positive associations between talc and ovarian cancer but the lower confidence limits are often close to 1.0." First, do you agree with that part 	1 A. Yeah. 2 Q. Do you see that? 3 A. I do. 4 Q. The letter then goes on to say: 5 "But the results of the Nurses' 6 Health Study, a large prospective cohort study, 7 revealed no overall association with ever talc use 8 and epithelial ovarian cancer." 9 That's a correct characterization of 10 the Gertig study, correct? 11 A. I think I think it is a 12 selected a selected component from the study 13 that misleads the public as to what the
1 would be able to comment on it. 2 Q. The next paragraph says: 3 "Results of case-control studies do 4 not demonstrate a consistent positive association 5 across studies." 6 Do you agree with that statement? 7 A. No, I do not. 8 Q. The next statement says: 9 "Some studies have found small 10 positive associations between talc and ovarian 11 cancer but the lower confidence limits are often 12 close to 1.0." 13 First, do you agree with that part 14 of that sentence?	1 A. Yeah. 2 Q. Do you see that? 3 A. I do. 4 Q. The letter then goes on to say: 5 "But the results of the Nurses' 6 Health Study, a large prospective cohort study, 7 revealed no overall association with ever talc use 8 and epithelial ovarian cancer." 9 That's a correct characterization of 10 the Gertig study, correct? 11 A. I think I think it is a 12 selected a selected component from the study 13 that misleads the public as to what the 14 association truly was across different
 would be able to comment on it. Q. The next paragraph says: "Results of case-control studies do not demonstrate a consistent positive association across studies." Do you agree with that statement? A. No, I do not. Q. The next statement says: "Some studies have found small positive associations between talc and ovarian cancer but the lower confidence limits are often close to 1.0." First, do you agree with that part of that sentence? A. That the lower confidence limits are 	1 A. Yeah. 2 Q. Do you see that? 3 A. I do. 4 Q. The letter then goes on to say: 5 "But the results of the Nurses' 6 Health Study, a large prospective cohort study, 7 revealed no overall association with ever talc use 8 and epithelial ovarian cancer." 9 That's a correct characterization of 10 the Gertig study, correct? 11 A. I think I think it is a 12 selected a selected component from the study 13 that misleads the public as to what the 14 association truly was across different 15 different variations of exposure assessment.
1 would be able to comment on it. 2 Q. The next paragraph says: 3 "Results of case-control studies do 4 not demonstrate a consistent positive association 5 across studies." 6 Do you agree with that statement? 7 A. No, I do not. 8 Q. The next statement says: 9 "Some studies have found small 10 positive associations between talc and ovarian 11 cancer but the lower confidence limits are often 12 close to 1.0." 13 First, do you agree with that part 14 of that sentence? 15 A. That the lower confidence limits are 16 often close to 1.0? Yes.	1 A. Yeah. 2 Q. Do you see that? 3 A. I do. 4 Q. The letter then goes on to say: 5 "But the results of the Nurses' 6 Health Study, a large prospective cohort study, 7 revealed no overall association with ever talc use 8 and epithelial ovarian cancer." 9 That's a correct characterization of 10 the Gertig study, correct? 11 A. I think I think it is a 12 selected a selected component from the study 13 that misleads the public as to what the 14 association truly was across different 15 different variations of exposure assessment. 16 Q. With regard to this letter, do you
1 would be able to comment on it. 2 Q. The next paragraph says: 3 "Results of case-control studies do 4 not demonstrate a consistent positive association 5 across studies." 6 Do you agree with that statement? 7 A. No, I do not. 8 Q. The next statement says: 9 "Some studies have found small 10 positive associations between talc and ovarian 11 cancer but the lower confidence limits are often 12 close to 1.0." 13 First, do you agree with that part 14 of that sentence? 15 A. That the lower confidence limits are 16 often close to 1.0? Yes. 17 Q. The next part of that paragraph 3	1 A. Yeah. 2 Q. Do you see that? 3 A. I do. 4 Q. The letter then goes on to say: 5 "But the results of the Nurses' 6 Health Study, a large prospective cohort study, 7 revealed no overall association with ever talc use 8 and epithelial ovarian cancer." 9 That's a correct characterization of 10 the Gertig study, correct? 11 A. I think I think it is a 12 selected a selected component from the study 13 that misleads the public as to what the 14 association truly was across different 15 different variations of exposure assessment. 16 Q. With regard to this letter, do you 17 have any experience with FDA response FDA's
1 would be able to comment on it. 2 Q. The next paragraph says: 3 "Results of case-control studies do 4 not demonstrate a consistent positive association 5 across studies." 6 Do you agree with that statement? 7 A. No, I do not. 8 Q. The next statement says: 9 "Some studies have found small 10 positive associations between talc and ovarian 11 cancer but the lower confidence limits are often 12 close to 1.0." 13 First, do you agree with that part 14 of that sentence? 15 A. That the lower confidence limits are 16 often close to 1.0? Yes. 17 Q. The next part of that paragraph 3 18 says "and dose-response evidence is lacking."	1 A. Yeah. 2 Q. Do you see that? 3 A. I do. 4 Q. The letter then goes on to say: 5 "But the results of the Nurses' 6 Health Study, a large prospective cohort study, 7 revealed no overall association with ever talc use 8 and epithelial ovarian cancer." 9 That's a correct characterization of 10 the Gertig study, correct? 11 A. I think I think it is a 12 selected a selected component from the study 13 that misleads the public as to what the 14 association truly was across different 15 different variations of exposure assessment. 16 Q. With regard to this letter, do you 17 have any experience with FDA response FDA's 18 responses to Citizen Petitions?
1 would be able to comment on it. 2 Q. The next paragraph says: 3 "Results of case-control studies do 4 not demonstrate a consistent positive association 5 across studies." 6 Do you agree with that statement? 7 A. No, I do not. 8 Q. The next statement says: 9 "Some studies have found small 10 positive associations between talc and ovarian 11 cancer but the lower confidence limits are often 12 close to 1.0." 13 First, do you agree with that part 14 of that sentence? 15 A. That the lower confidence limits are 16 often close to 1.0? Yes. 17 Q. The next part of that paragraph 3 18 says "and dose-response evidence is lacking." 19 Do you agree that as of 2014,	1 A. Yeah. 2 Q. Do you see that? 3 A. I do. 4 Q. The letter then goes on to say: 5 "But the results of the Nurses' 6 Health Study, a large prospective cohort study, 7 revealed no overall association with ever talc use 8 and epithelial ovarian cancer." 9 That's a correct characterization of 10 the Gertig study, correct? 11 A. I think I think it is a 12 selected a selected component from the study 13 that misleads the public as to what the 14 association truly was across different 15 different variations of exposure assessment. 16 Q. With regard to this letter, do you 17 have any experience with FDA response FDA's 18 responses to Citizen Petitions? 19 A. No, I have no idea.
1 would be able to comment on it. 2 Q. The next paragraph says: 3 "Results of case-control studies do 4 not demonstrate a consistent positive association 5 across studies." 6 Do you agree with that statement? 7 A. No, I do not. 8 Q. The next statement says: 9 "Some studies have found small 10 positive associations between talc and ovarian 11 cancer but the lower confidence limits are often 12 close to 1.0." 13 First, do you agree with that part 14 of that sentence? 15 A. That the lower confidence limits are 16 often close to 1.0? Yes. 17 Q. The next part of that paragraph 3 18 says "and dose-response evidence is lacking." 19 Do you agree that as of 2014, 20 dose-response evidence was lacking?	1 A. Yeah. 2 Q. Do you see that? 3 A. I do. 4 Q. The letter then goes on to say: 5 "But the results of the Nurses' 6 Health Study, a large prospective cohort study, 7 revealed no overall association with ever talc use 8 and epithelial ovarian cancer." 9 That's a correct characterization of 10 the Gertig study, correct? 11 A. I think I think it is a 12 selected a selected component from the study 13 that misleads the public as to what the 14 association truly was across different 15 different variations of exposure assessment. 16 Q. With regard to this letter, do you 17 have any experience with FDA response FDA's 18 responses to Citizen Petitions? 19 A. No, I have no idea. 20 Q. Have you ever been involved in an
1 would be able to comment on it. 2 Q. The next paragraph says: 3 "Results of case-control studies do 4 not demonstrate a consistent positive association 5 across studies." 6 Do you agree with that statement? 7 A. No, I do not. 8 Q. The next statement says: 9 "Some studies have found small 10 positive associations between talc and ovarian 11 cancer but the lower confidence limits are often 12 close to 1.0." 13 First, do you agree with that part 14 of that sentence? 15 A. That the lower confidence limits are 16 often close to 1.0? Yes. 17 Q. The next part of that paragraph 3 18 says "and dose-response evidence is lacking." 19 Do you agree that as of 2014, 20 dose-response evidence was lacking? 21 A. No, I do not agree with that.	1 A. Yeah. 2 Q. Do you see that? 3 A. I do. 4 Q. The letter then goes on to say: 5 "But the results of the Nurses' 6 Health Study, a large prospective cohort study, 7 revealed no overall association with ever talc use 8 and epithelial ovarian cancer." 9 That's a correct characterization of 10 the Gertig study, correct? 11 A. I think I think it is a 12 selected a selected component from the study 13 that misleads the public as to what the 14 association truly was across different 15 different variations of exposure assessment. 16 Q. With regard to this letter, do you 17 have any experience with FDA response FDA's 18 responses to Citizen Petitions? 19 A. No, I have no idea. 20 Q. Have you ever been involved in an 21 FDA review of a Citizen Petition?
1 would be able to comment on it. 2 Q. The next paragraph says: 3 "Results of case-control studies do 4 not demonstrate a consistent positive association 5 across studies." 6 Do you agree with that statement? 7 A. No, I do not. 8 Q. The next statement says: 9 "Some studies have found small 10 positive associations between talc and ovarian 11 cancer but the lower confidence limits are often 12 close to 1.0." 13 First, do you agree with that part 14 of that sentence? 15 A. That the lower confidence limits are 16 often close to 1.0? Yes. 17 Q. The next part of that paragraph 3 18 says "and dose-response evidence is lacking." 19 Do you agree that as of 2014, 20 dose-response evidence was lacking? 21 A. No, I do not agree with that. 22 We showed dose response in 1992.	1 A. Yeah. 2 Q. Do you see that? 3 A. I do. 4 Q. The letter then goes on to say: 5 "But the results of the Nurses' 6 Health Study, a large prospective cohort study, 7 revealed no overall association with ever talc use 8 and epithelial ovarian cancer." 9 That's a correct characterization of 10 the Gertig study, correct? 11 A. I think I think it is a 12 selected a selected component from the study 13 that misleads the public as to what the 14 association truly was across different 15 different variations of exposure assessment. 16 Q. With regard to this letter, do you 17 have any experience with FDA response FDA's 18 responses to Citizen Petitions? 19 A. No, I have no idea. 20 Q. Have you ever been involved in an 21 FDA review of a Citizen Petition? 22 A. I have not.

	Page 262		Page 264
1	Page 262 Petitions?	1	know, but they specifically say that "the
2	A. I have not.	2	potential for particulates to migrate
3	Q. This letter was authored by Steve	3	from the perineum and vagina to the
	Musser.	4	peritoneal cavity is indisputable."
5	Do you know Steve Musser?	5	BY MR. HEGARTY:
6	A. I do not.	6	Q. What is what does it mean to say
7	Q. Is it your opinion that the doctors	7	
	and scientists at FDA involved in responding to	8	"indisputable"? What's your interpretation of
	the Citizen Petition were not qualified to assess	9	
	the safety data?	10	A. That it is plausible
11	A. I can't speak to whether they were	11	Q. Phraseology.
	qualified or not. I just believe that what they	12	A. That it is plausible that the
	put forward here is is inaccurate.		particulates will migrate.
14	Q. Is it your belief that the that	14	
	those involved in putting together this FDA		now, Doctor.
	response did not do a proper job?	16	You're familiar with the NIH,
17	A. Yes.		correct?
18	Q. Is it your contention that FDA	18	A. I am.
	failed to do its job with regard to the safety of	19	
	talc?	1	refers to work you've done through the NIH,
21	MR. TISI: Objection. It's		correct?
22	not his medical	22	A. Yes.
23	THE WITNESS: I can't I	23	Q. Including you have one grant that
24	can't speak	1	you're working from from NIH, correct?
	Page 263		· · · · · · · · · · · · · · · · · · ·
1	Page 263 MR. TISI: Objection, Outside	1	Page 265
1 2	MR. TISI: Objection. Outside	1 2	Page 265 A. I have two.
2	MR. TISI: Objection. Outside the scope of the report, but you may	1 2 3	Page 265 A. I have two. Q. You also have another grant pending?
	MR. TISI: Objection. Outside the scope of the report, but you may answer.	2 3	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm
2 3 4	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak	2 3	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry
2 3 4 5	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in	2 3 4 5	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence
2 3 4 5 6	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in this situation.	2 3 4 5 6	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence unexplained vulvar pain, and I'm the PI of a
2 3 4 5 6	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in this situation. BY MR. HEGARTY:	2 3 4 5 6 7	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence unexplained vulvar pain, and I'm the PI of a subcontract with the Prevention of Lower Urinary
2 3 4 5 6 7 8	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in this situation.	2 3 4 5 6 7 8	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence unexplained vulvar pain, and I'm the PI of a subcontract with the Prevention of Lower Urinary Tract Symptoms Research Consortium on women's
2 3 4 5 6 7 8 9	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in this situation. BY MR. HEGARTY: Q. Is it your contention that FDA believes that there is a risk of ovarian cancer	2 3 4 5 6 7 8 9	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence unexplained vulvar pain, and I'm the PI of a subcontract with the Prevention of Lower Urinary
2 3 4 5 6 7 8 9	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in this situation. BY MR. HEGARTY: Q. Is it your contention that FDA	2 3 4 5 6 7 8 9	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence unexplained vulvar pain, and I'm the PI of a subcontract with the Prevention of Lower Urinary Tract Symptoms Research Consortium on women's urological health. Those are both NIH grants.
2 3 4 5 6 7 8 9	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in this situation. BY MR. HEGARTY: Q. Is it your contention that FDA believes that there is a risk of ovarian cancer with talc use and has chosen to do nothing about	2 3 4 5 6 7 8 9	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence unexplained vulvar pain, and I'm the PI of a subcontract with the Prevention of Lower Urinary Tract Symptoms Research Consortium on women's urological health. Those are both NIH grants. Q. You have also served on NIH
2 3 4 5 6 7 8 9 10	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in this situation. BY MR. HEGARTY: Q. Is it your contention that FDA believes that there is a risk of ovarian cancer with talc use and has chosen to do nothing about it?	2 3 4 5 6 7 8 9 10	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence unexplained vulvar pain, and I'm the PI of a subcontract with the Prevention of Lower Urinary Tract Symptoms Research Consortium on women's urological health. Those are both NIH grants. Q. You have also served on NIH committees, correct? A. I have.
2 3 4 5 6 7 8 9 10 11 12	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in this situation. BY MR. HEGARTY: Q. Is it your contention that FDA believes that there is a risk of ovarian cancer with talc use and has chosen to do nothing about it? A. I MR. TISI: Objection. Calls	2 3 4 5 6 7 8 9 10 11 12 13	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence unexplained vulvar pain, and I'm the PI of a subcontract with the Prevention of Lower Urinary Tract Symptoms Research Consortium on women's urological health. Those are both NIH grants. Q. You have also served on NIH committees, correct? A. I have.
2 3 4 5 6 7 8 9 10 11 12 13	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in this situation. BY MR. HEGARTY: Q. Is it your contention that FDA believes that there is a risk of ovarian cancer with talc use and has chosen to do nothing about it? A. I	2 3 4 5 6 7 8 9 10 11 12 13 14	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence unexplained vulvar pain, and I'm the PI of a subcontract with the Prevention of Lower Urinary Tract Symptoms Research Consortium on women's urological health. Those are both NIH grants. Q. You have also served on NIH committees, correct? A. I have. Q. You agree with me that the NIH is
2 3 4 5 6 7 8 9 10 11 12 13 14	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in this situation. BY MR. HEGARTY: Q. Is it your contention that FDA believes that there is a risk of ovarian cancer with talc use and has chosen to do nothing about it? A. I MR. TISI: Objection. Calls for speculation.	2 3 4 5 6 7 8 9 10 11 12 13 14	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence unexplained vulvar pain, and I'm the PI of a subcontract with the Prevention of Lower Urinary Tract Symptoms Research Consortium on women's urological health. Those are both NIH grants. Q. You have also served on NIH committees, correct? A. I have. Q. You agree with me that the NIH is the federal government's primary health agency on
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in this situation. BY MR. HEGARTY: Q. Is it your contention that FDA believes that there is a risk of ovarian cancer with talc use and has chosen to do nothing about it? A. I MR. TISI: Objection. Calls for speculation. THE WITNESS: Yeah. Again, I	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence unexplained vulvar pain, and I'm the PI of a subcontract with the Prevention of Lower Urinary Tract Symptoms Research Consortium on women's urological health. Those are both NIH grants. Q. You have also served on NIH committees, correct? A. I have. Q. You agree with me that the NIH is the federal government's primary health agency on cancer research in the U.S., correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in this situation. BY MR. HEGARTY: Q. Is it your contention that FDA believes that there is a risk of ovarian cancer with talc use and has chosen to do nothing about it? A. I MR. TISI: Objection. Calls for speculation. THE WITNESS: Yeah. Again, I cannot speculate on that.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence unexplained vulvar pain, and I'm the PI of a subcontract with the Prevention of Lower Urinary Tract Symptoms Research Consortium on women's urological health. Those are both NIH grants. Q. You have also served on NIH committees, correct? A. I have. Q. You agree with me that the NIH is the federal government's primary health agency on cancer research in the U.S., correct? A. That's correct.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in this situation. BY MR. HEGARTY: Q. Is it your contention that FDA believes that there is a risk of ovarian cancer with talc use and has chosen to do nothing about it? A. I MR. TISI: Objection. Calls for speculation. THE WITNESS: Yeah. Again, I cannot speculate on that. BY MR. HEGARTY:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence unexplained vulvar pain, and I'm the PI of a subcontract with the Prevention of Lower Urinary Tract Symptoms Research Consortium on women's urological health. Those are both NIH grants. Q. You have also served on NIH committees, correct? A. I have. Q. You agree with me that the NIH is the federal government's primary health agency on cancer research in the U.S., correct? A. That's correct. Q. Do you agree that the NCI is a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in this situation. BY MR. HEGARTY: Q. Is it your contention that FDA believes that there is a risk of ovarian cancer with talc use and has chosen to do nothing about it? A. I MR. TISI: Objection. Calls for speculation. THE WITNESS: Yeah. Again, I cannot speculate on that. BY MR. HEGARTY: Q. Is it your opinion or your belief	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence unexplained vulvar pain, and I'm the PI of a subcontract with the Prevention of Lower Urinary Tract Symptoms Research Consortium on women's urological health. Those are both NIH grants. Q. You have also served on NIH committees, correct? A. I have. Q. You agree with me that the NIH is the federal government's primary health agency on cancer research in the U.S., correct? A. That's correct. Q. Do you agree that the NCI is a capable and reliable resource in this country for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in this situation. BY MR. HEGARTY: Q. Is it your contention that FDA believes that there is a risk of ovarian cancer with talc use and has chosen to do nothing about it? A. I MR. TISI: Objection. Calls for speculation. THE WITNESS: Yeah. Again, I cannot speculate on that. BY MR. HEGARTY: Q. Is it your opinion or your belief that FDA believes there is a warning that's necessary on talcum powder products for ovarian	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence unexplained vulvar pain, and I'm the PI of a subcontract with the Prevention of Lower Urinary Tract Symptoms Research Consortium on women's urological health. Those are both NIH grants. Q. You have also served on NIH committees, correct? A. I have. Q. You agree with me that the NIH is the federal government's primary health agency on cancer research in the U.S., correct? A. That's correct. Q. Do you agree that the NCI is a capable and reliable resource in this country for information on cancer?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in this situation. BY MR. HEGARTY: Q. Is it your contention that FDA believes that there is a risk of ovarian cancer with talc use and has chosen to do nothing about it? A. I MR. TISI: Objection. Calls for speculation. THE WITNESS: Yeah. Again, I cannot speculate on that. BY MR. HEGARTY: Q. Is it your opinion or your belief that FDA believes there is a warning that's necessary on talcum powder products for ovarian	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence unexplained vulvar pain, and I'm the PI of a subcontract with the Prevention of Lower Urinary Tract Symptoms Research Consortium on women's urological health. Those are both NIH grants. Q. You have also served on NIH committees, correct? A. I have. Q. You agree with me that the NIH is the federal government's primary health agency on cancer research in the U.S., correct? A. That's correct. Q. Do you agree that the NCI is a capable and reliable resource in this country for information on cancer? MR. TISI: Objection.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in this situation. BY MR. HEGARTY: Q. Is it your contention that FDA believes that there is a risk of ovarian cancer with talc use and has chosen to do nothing about it? A. I MR. TISI: Objection. Calls for speculation. THE WITNESS: Yeah. Again, I cannot speculate on that. BY MR. HEGARTY: Q. Is it your opinion or your belief that FDA believes there is a warning that's necessary on talcum powder products for ovarian cancer, but they're just not going to require it?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence unexplained vulvar pain, and I'm the PI of a subcontract with the Prevention of Lower Urinary Tract Symptoms Research Consortium on women's urological health. Those are both NIH grants. Q. You have also served on NIH committees, correct? A. I have. Q. You agree with me that the NIH is the federal government's primary health agency on cancer research in the U.S., correct? A. That's correct. Q. Do you agree that the NCI is a capable and reliable resource in this country for information on cancer? MR. TISI: Objection. THE WITNESS: Yeah. I think
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. TISI: Objection. Outside the scope of the report, but you may answer. THE WITNESS: I can't speak as to what their responsibility is in this situation. BY MR. HEGARTY: Q. Is it your contention that FDA believes that there is a risk of ovarian cancer with talc use and has chosen to do nothing about it? A. I MR. TISI: Objection. Calls for speculation. THE WITNESS: Yeah. Again, I cannot speculate on that. BY MR. HEGARTY: Q. Is it your opinion or your belief that FDA believes there is a warning that's necessary on talcum powder products for ovarian cancer, but they're just not going to require it? MR. TISI: Objection. Calls	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Page 265 A. I have two. Q. You also have another grant pending? A. No. No. I have a grant that I'm the PI of looking at Swedish national registry data and its and factors that influence unexplained vulvar pain, and I'm the PI of a subcontract with the Prevention of Lower Urinary Tract Symptoms Research Consortium on women's urological health. Those are both NIH grants. Q. You have also served on NIH committees, correct? A. I have. Q. You agree with me that the NIH is the federal government's primary health agency on cancer research in the U.S., correct? A. That's correct. Q. Do you agree that the NCI is a capable and reliable resource in this country for information on cancer? MR. TISI: Objection. THE WITNESS: Yeah. I think the I can't speak to their decisions

Page 266	Page 268
1 BY MR. HEGARTY:	1 Q. Sure.
2 Q. Do you agree that NCI is a reliable	2 Is it your contention that documents
3 resource for doctors with regard to cancer	3 put out by NCI with regard to cancer are not
4 research?	4 necessarily reliable and can be relied upon by
5 MR. TISI: Objection.	5 doctors who are treating patients for cancer?
6 Objection. Vague.	6 A. I can't say that that's the case
7 THE WITNESS: I think no.	7 across the board. I think it depends on what
8 MR. TISI: Depending upon the	8 what they are putting out and whether what they're
9 issue. Go ahead.	9 putting out is is indisputable or is accurate
10 THE WITNESS: Yeah. No, I	10 in terms of representing the view of the
think a reliable resource for for	11 scientific community.
doctors and everyone should be evidence	12 Q. Starting on page 16 of your report,
from the scientific literature. If it is	13 you make reference to the NCI's Physician Data
14 accurately evaluated, then it can be a	14 Query, or PDQ, correct?
15 resource in the external-facing website	15 A. That's correct.
16 of the NCI.	16 Hold on. Let me just. I'll pull
17 BY MR. HEGARTY:	17 that up.
18 Q. You have served on NCI committees,	18 Q. And I'll
19 correct?	19 A. Oh, in my report.
20 A. I served on the Board of Scientific	· ·
21 Counselors. No. Board board of I think	,
22 it's the Board of Scientific Counselors for the	Q. My reference was simply to
23 NCI which evaluates intramural research, which is	23 A. Okay.
24 research that is done by investigators at NCI that	Q page 16 of your report.
Page 267 1 work out of NCI itself.	Page 269 1 A. Yeah. Yeah.
2 Q. Was the work you did and reported 3 out of that committee reliable?	2 Q. Prior to being contacted by
	3 plaintiffs' counsel about serving as an expert
4 MR. TISI: Objection.	4 witness in this litigation, had you ever read an
5 THE WITNESS: Well, that	5 NCI PDQ on ovarian cancer?
6 that committee evaluates the scientific	6 A. I had not.
7 approach and scientific rigor of research	7 Q. Since being contacted by plaintiffs'
8 that is being done by NCI internal	8 counsel about serving as an expert witness in this
9 investigators, and they publish their	9 case, have you reviewed all the NCI PDQs on
10 research in the scientific literature,	10 ovarian cancer that NCI has put out over the
just like those of us who are outside of	11 years?
the NCI and any other government	12 A. I have reviewed many of them.
13 organization.	13 Q. With regard to those you reviewed,
14 BY MR. HEGARTY:	14 did you get them from counsel for plaintiffs?
15 Q. So is it your testimony that	15 A. I I went some I got from the
16 anything NCI puts out with regard to cancer is not	16 counsel and some I went onto the PDQ site myself
17 necessarily a reliable authority that doctors can	17 and pulled off.
18 rely on?	18 Q. Your report on page 17 refers to the
MR. TISI: Objection.	19 2023 NCI PDQ?
20 THE WITNESS: Yeah.	20 A. That's correct.
21 MR. TISI: Form.	Q. When did you first review the NCI
22 THE WITNESS: Could you	22 PDQ you refer to on page 17 of your report?
1	
23 repeat that question?	23 A. Yeah, in the process of preparing

	Page 270		Page 272
1	MR. HEGARTY: I'm going to	1	A. No, I don't I don't dispute that
2	mark as the next exhibit, which is		that's what they are intending to do.
3	Exhibit 17, the current version of the	3	Q. Looking at the well, let me
4	NCI PDQ that is on NCI's website.		before I go there.
5	(Document marked for	5	You said that that's not you
6	identification as Harlow Exhibit 17.)		don't dispute that that's what they intended to
7	THE WITNESS: Is this 2023?		do.
8	BY MR. HEGARTY:	8	You've read this document, correct?
9	Q. If you look over on page 25 of 27,	9	A. Uh-huh.
		10	Q. Yes?
	latest update as being from March 6, 2024?	11	A. Yes.
12		12	
	A. Yeah. Ah. Yes. Yes, yes, yes.		Q. Did the NCI PDQ board that put this
13	Q. Have you have you reviewed the		out provide "an information summary for health
	March 6, 2024 NCI		professionals that provides comprehensive,
15	A. I have.		peer-reviewed, evidence-based information abou
16	Q PDQ?		ovarian, fallopian tube, and primary peritoneal
17	A. I have.		cancers prevention"?
18	Q. When did you review it	18	MR. TISI: Objection. Asked
19	A. Recently.	19	and answered.
20	Q first time?	20	THE WITNESS: It is what they
21	A. Recently, but it was not available	21	intended to do, and that's that's the
	in my report.	22	answer.
23	Q. Please turn over to page 25 of 27.		BY MR. HEGARTY:
24	A. That's where we were before, right?	24	Q. Do you agree that they did do that,
			D 050
	Page 271		Page 273
1	Q. That's right.	1	not that they intended to do it?
2	Q. That's right.A. "About This PDQ Summary"?	1 2	not that they intended to do it? A. No, I agree that they did it.
2 3	Q. That's right.A. "About This PDQ Summary"?Q. Yes. Under the section "Purpose of	2	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers
2 3 4	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary."	2	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where
2 3	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to?	2	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers
2 3 4	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary."	2 3 4	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where
2 3 4 5	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to?	2 3 4 5 6	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where A. Where is that?
2 3 4 5 6	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to? A. Yes, uh-huh.	2 3 4 5 6 7	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where A. Where is that? Q. It's in the same page just below
2 3 4 5 6 7 8	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to? A. Yes, uh-huh. Q. It states that:	2 3 4 5 6 7 7	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where A. Where is that? Q. It's in the same page just below where we were reading.
2 3 4 5 6 7 8 9	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to? A. Yes, uh-huh. Q. It states that: "This PDQ cancer information summary."	2 3 4 5 6 7 7 8 9	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where A. Where is that? Q. It's in the same page just below where we were reading. A. Same page?
2 3 4 5 6 7 8 9	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to? A. Yes, uh-huh. Q. It states that: "This PDQ cancer information summary for health professionals provides comprehensive	2 3 4 5 6 7 8 9 t10	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where A. Where is that? Q. It's in the same page just below where we were reading. A. Same page? Q. Still page 25 of 27.
2 3 4 5 6 7 8 9 10	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to? A. Yes, uh-huh. Q. It states that: "This PDQ cancer information summary for health professionals provides comprehensive peer-reviewed, evidence-based information about	2 3 4 5 6 7 8 9 t10	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where A. Where is that? Q. It's in the same page just below where we were reading. A. Same page? Q. Still page 25 of 27. A. Oh. I'm sorry. 25 of 27. No, I
2 3 4 5 6 7 8 9 10	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to? A. Yes, uh-huh. Q. It states that: "This PDQ cancer information summary for health professionals provides comprehensive peer-reviewed, evidence-based information about ovarian fallopian tube, and primary peritoneal	2 3 4 5 6 7 8 9 tt10 11 12	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where A. Where is that? Q. It's in the same page just below where we were reading. A. Same page? Q. Still page 25 of 27. A. Oh. I'm sorry. 25 of 27. No, I was oh, okay. I'm sorry. Where on 25 again?
2 3 4 5 6 7 8 9 10 11 12 13	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to? A. Yes, uh-huh. Q. It states that: "This PDQ cancer information summary for health professionals provides comprehensive peer-reviewed, evidence-based information about ovarian fallopian tube, and primary peritoneal cancers prevention."	2 3 4 5 6 7 8 9 tt10 11 12	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where A. Where is that? Q. It's in the same page just below where we were reading. A. Same page? Q. Still page 25 of 27. A. Oh. I'm sorry. 25 of 27. No, I was oh, okay. I'm sorry. Where on 25 again? Q. Under the section "Reviewers and
2 3 4 5 6 7 8 9 10 11 12 13	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to? A. Yes, uh-huh. Q. It states that: "This PDQ cancer information summary for health professionals provides comprehensive peer-reviewed, evidence-based information about ovarian fallopian tube, and primary peritoneal cancers prevention." Do you dispute that that's what this	2 3 4 5 6 7 7 8 9 t10 11 12 13	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where A. Where is that? Q. It's in the same page just below where we were reading. A. Same page? Q. Still page 25 of 27. A. Oh. I'm sorry. 25 of 27. No, I was oh, okay. I'm sorry. Where on 25 again? Q. Under the section "Reviewers and Updates."
2 3 4 5 6 7 8 9 10 11 12 13 14	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to? A. Yes, uh-huh. Q. It states that: "This PDQ cancer information summary for health professionals provides comprehensive peer-reviewed, evidence-based information about ovarian fallopian tube, and primary peritoneal cancers prevention." Do you dispute that that's what this NCI PDQ does?	2 3 4 5 6 7 7 8 9 t10 11 12 13 14 15	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where A. Where is that? Q. It's in the same page just below where we were reading. A. Same page? Q. Still page 25 of 27. A. Oh. I'm sorry. 25 of 27. No, I was oh, okay. I'm sorry. Where on 25 again? Q. Under the section "Reviewers and Updates." MR. TISI: Right here.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to? A. Yes, uh-huh. Q. It states that: "This PDQ cancer information summary for health professionals provides comprehensive peer-reviewed, evidence-based information about ovarian fallopian tube, and primary peritoneal cancers prevention." Do you dispute that that's what this NCI PDQ does? A. That's what they indicate it does.	2 3 4 5 6 7 7 8 9 t10 11 12 13 14 15	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where A. Where is that? Q. It's in the same page just below where we were reading. A. Same page? Q. Still page 25 of 27. A. Oh. I'm sorry. 25 of 27. No, I was oh, okay. I'm sorry. Where on 25 again? Q. Under the section "Reviewers and Updates." MR. TISI: Right here. THE WITNESS: Got it. BY MR. HEGARTY:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to? A. Yes, uh-huh. Q. It states that: "This PDQ cancer information summary for health professionals provides comprehensive peer-reviewed, evidence-based information about ovarian fallopian tube, and primary peritoneal cancers prevention." Do you dispute that that's what this NCI PDQ does? A. That's what they indicate it does. Q. My question, though, is: Do you dispute that that's what this NCI PDQ does?	2 3 4 5 6 7 7 8 9 t10 11 12 13 14 15 16	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where A. Where is that? Q. It's in the same page just below where we were reading. A. Same page? Q. Still page 25 of 27. A. Oh. I'm sorry. 25 of 27. No, I was oh, okay. I'm sorry. Where on 25 again? Q. Under the section "Reviewers and Updates." MR. TISI: Right here. THE WITNESS: Got it. BY MR. HEGARTY: Q. The second paragraph says:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to? A. Yes, uh-huh. Q. It states that: "This PDQ cancer information summary for health professionals provides comprehensive peer-reviewed, evidence-based information about ovarian fallopian tube, and primary peritoneal cancers prevention." Do you dispute that that's what this NCI PDQ does? A. That's what they indicate it does. Q. My question, though, is: Do you	2 3 4 5 6 7 7 8 9 t10 11 12 13 14 15 16 17 18	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where A. Where is that? Q. It's in the same page just below where we were reading. A. Same page? Q. Still page 25 of 27. A. Oh. I'm sorry. 25 of 27. No, I was oh, okay. I'm sorry. Where on 25 again? Q. Under the section "Reviewers and Updates." MR. TISI: Right here. THE WITNESS: Got it. BY MR. HEGARTY: Q. The second paragraph says: "Board members review recently
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to? A. Yes, uh-huh. Q. It states that: "This PDQ cancer information summary for health professionals provides comprehensive peer-reviewed, evidence-based information about ovarian fallopian tube, and primary peritoneal cancers prevention." Do you dispute that that's what this NCI PDQ does? A. That's what they indicate it does. Q. My question, though, is: Do you dispute that that's what this NCI PDQ does? MR. TISI: Objection. Asked and answered.	2 3 4 5 6 7 7 8 9 t10 11 12 13 14 15 16 17 18 19	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where A. Where is that? Q. It's in the same page just below where we were reading. A. Same page? Q. Still page 25 of 27. A. Oh. I'm sorry. 25 of 27. No, I was oh, okay. I'm sorry. Where on 25 again? Q. Under the section "Reviewers and Updates." MR. TISI: Right here. THE WITNESS: Got it. BY MR. HEGARTY: Q. The second paragraph says: "Board members review recently published articles each month to determine whether
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to? A. Yes, uh-huh. Q. It states that: "This PDQ cancer information summary for health professionals provides comprehensive peer-reviewed, evidence-based information about ovarian fallopian tube, and primary peritoneal cancers prevention." Do you dispute that that's what this NCI PDQ does? A. That's what they indicate it does. Q. My question, though, is: Do you dispute that that's what this NCI PDQ does? MR. TISI: Objection. Asked and answered. THE WITNESS: That's what	2 3 4 5 6 7 7 8 9 tt10 11 12 13 14 15 16 17 18 19 20	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where A. Where is that? Q. It's in the same page just below where we were reading. A. Same page? Q. Still page 25 of 27. A. Oh. I'm sorry. 25 of 27. No, I was oh, okay. I'm sorry. Where on 25 again? Q. Under the section "Reviewers and Updates." MR. TISI: Right here. THE WITNESS: Got it. BY MR. HEGARTY: Q. The second paragraph says: "Board members review recently published articles each month to determine whether an article should: be discussed at a meeting, be
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to? A. Yes, uh-huh. Q. It states that: "This PDQ cancer information summary for health professionals provides comprehensive peer-reviewed, evidence-based information about ovarian fallopian tube, and primary peritoneal cancers prevention." Do you dispute that that's what this NCI PDQ does? A. That's what they indicate it does. Q. My question, though, is: Do you dispute that that's what this NCI PDQ does? MR. TISI: Objection. Asked and answered. THE WITNESS: That's what they specifically say it does.	2 3 4 5 6 7 7 8 9 t10 11 12 13 14 15 16 17 18 19 20 21	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where A. Where is that? Q. It's in the same page just below where we were reading. A. Same page? Q. Still page 25 of 27. A. Oh. I'm sorry. 25 of 27. No, I was oh, okay. I'm sorry. Where on 25 again? Q. Under the section "Reviewers and Updates." MR. TISI: Right here. THE WITNESS: Got it. BY MR. HEGARTY: Q. The second paragraph says: "Board members review recently published articles each month to determine whether an article should: be discussed at a meeting, be cited with text, or" turn the page.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to? A. Yes, uh-huh. Q. It states that: "This PDQ cancer information summary for health professionals provides comprehensive peer-reviewed, evidence-based information about ovarian fallopian tube, and primary peritoneal cancers prevention." Do you dispute that that's what this NCI PDQ does? A. That's what they indicate it does. Q. My question, though, is: Do you dispute that that's what this NCI PDQ does? MR. TISI: Objection. Asked and answered. THE WITNESS: That's what they specifically say it does. BY MR. HEGARTY:	2 3 4 5 6 7 7 8 9 t10 11 12 13 14 15 16 17 18 19 20 21 22	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where A. Where is that? Q. It's in the same page just below where we were reading. A. Same page? Q. Still page 25 of 27. A. Oh. I'm sorry. 25 of 27. No, I was oh, okay. I'm sorry. Where on 25 again? Q. Under the section "Reviewers and Updates." MR. TISI: Right here. THE WITNESS: Got it. BY MR. HEGARTY: Q. The second paragraph says: "Board members review recently published articles each month to determine whether an article should: be discussed at a meeting, be cited with text, or" turn the page. A. Uh-huh.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. That's right. A. "About This PDQ Summary"? Q. Yes. Under the section "Purpose of This Summary." Do you see where I'm pointing to? A. Yes, uh-huh. Q. It states that: "This PDQ cancer information summary for health professionals provides comprehensive peer-reviewed, evidence-based information about ovarian fallopian tube, and primary peritoneal cancers prevention." Do you dispute that that's what this NCI PDQ does? A. That's what they indicate it does. Q. My question, though, is: Do you dispute that that's what this NCI PDQ does? MR. TISI: Objection. Asked and answered. THE WITNESS: That's what they specifically say it does.	2 3 4 5 6 7 7 8 9 tt10 11 12 13 14 15 16 17 18 19 20 21 22 23	not that they intended to do it? A. No, I agree that they did it. Q. Okay. Under the section "Reviewers and Updates," do you see where A. Where is that? Q. It's in the same page just below where we were reading. A. Same page? Q. Still page 25 of 27. A. Oh. I'm sorry. 25 of 27. No, I was oh, okay. I'm sorry. Where on 25 again? Q. Under the section "Reviewers and Updates." MR. TISI: Right here. THE WITNESS: Got it. BY MR. HEGARTY: Q. The second paragraph says: "Board members review recently published articles each month to determine whether an article should: be discussed at a meeting, be cited with text, or" turn the page.

No, I don't dispute that they didn't

Do you contend that they do not

23 stand behind the statements in the PDQ about talc

24 and ovarian cancer that we marked as Exhibit 17?

20

22

19 Exhibit Number 17?

21 review the literature.

correctly. Objection to form.

MR. HEGARTY: Doctor, I'm

going to mark next as Exhibit 18 the PDQ

Screening and Prevention Editorial Board.

MR. TISI: So there's no

question? You're not going to let him

19

20

21

22

23

24

1	Page 278	1	Page 280
1	A. I would assume that they do.		fact that meta-analyses did not show any kind of a
2	Q. Do you contend that the statements		dose-response relationship, but the overall
3	that they make in the NCI PDQ on ovarian cancer	3	
	and talc are false?	4	Oh, and also in their citation of
5	MR. TISI: Take a look at it	_	the of the pooled analysis from the Ovarian
6	before.	6	, ε
7	THE WITNESS: What particular	7	citation of what the overall association. But
8	statements are we referring to?		their their their contention that lifetime
	BY MR. HEGARTY:		numbers of applications was not was not
10	Q. In Exhibit 17, the statements on		statistically significant, making an assumption
	talc and ovarian cancer over on page 21 of 27		that there was no increase in risk with increasing
	carrying over to page 22 of 27.		numbers of exposure, was simply based on
13	A. Right. There we go.		statistical significance.
14	Q. First of all, before I ask, I'll go	14	Whereas, as I recall when going back
	back to that question.		and looking at that, and you look at the lower and
16	You have read before today the		upper 95 percent confidence bounds, you see a
17	1 1 2	17	8
	and 22?		exposure.
19	A. Yes.	19	So the way in which they
20	Q. You're familiar with what that says,		characterize that I felt was not accurate.
	correct?	21	They cite they cite that the
22	A. I am.		subset analysis of the prospective study I
23	Q. Going back to my question: Do you		believe that was by Woolen; is that correct? Is
24	contend that the statements in the section on	24	that the citation?
1	Page 279		Page 281
1	"Perineal Talc Exposure" are false?	1	Q. Yes.
2	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a	2	Q. Yes.A. Yeah. They they they said
2 3	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to.	2 3	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's
2 3 4	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews	2 3 4	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see.
2 3 4 5	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.)	2 3 4 5	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the
2 3 4 5 6	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.) There are some statements here	2 3 4 5 6	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the prospective study was essentially made by the
2 3 4 5 6 7	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.) There are some statements here that I believe are false.	2 3 4 5 6 7	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the prospective study was essentially made by the original report.
2 3 4 5 6 7 8	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.) There are some statements here that I believe are false. BY MR. HEGARTY:	2 3 4 5 6 7 8	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the prospective study was essentially made by the original report. Right. First of all, I think they
2 3 4 5 6 7 8 9	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.) There are some statements here that I believe are false. BY MR. HEGARTY: Q. Which statements do you believe are	2 3 4 5 6 7 8 9	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the prospective study was essentially made by the original report. Right. First of all, I think they made an incorrect they made an incorrect
2 3 4 5 6 7 8 9 10	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.) There are some statements here that I believe are false. BY MR. HEGARTY: Q. Which statements do you believe are false?	2 3 4 5 6 7 8 9	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the prospective study was essentially made by the original report. Right. First of all, I think they made an incorrect they made an incorrect citation in this.
2 3 4 5 6 7 8 9 10	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.) There are some statements here that I believe are false. BY MR. HEGARTY: Q. Which statements do you believe are false? A. The first sentence.	2 3 4 5 6 7 8 9 10 11	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the prospective study was essentially made by the original report. Right. First of all, I think they made an incorrect they made an incorrect citation in this. But in any case, I believe that they
2 3 4 5 6 7 8 9 10 11 12	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.) There are some statements here that I believe are false. BY MR. HEGARTY: Q. Which statements do you believe are false? A. The first sentence. Q. Any other statements?	2 3 4 5 6 7 8 9 10 11 12	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the prospective study was essentially made by the original report. Right. First of all, I think they made an incorrect they made an incorrect citation in this. But in any case, I believe that they were stating something about the approach of
2 3 4 5 6 7 8 9 10 11 12 13	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.) There are some statements here that I believe are false. BY MR. HEGARTY: Q. Which statements do you believe are false? A. The first sentence. Q. Any other statements? A. "Results from case"	2 3 4 5 6 7 8 9 10 11 12 13	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the prospective study was essentially made by the original report. Right. First of all, I think they made an incorrect they made an incorrect citation in this. But in any case, I believe that they were stating something about the approach of excluding two of the three cohort studies was sort
2 3 4 5 6 7 8 9 10 11 12 13 14	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.) There are some statements here that I believe are false. BY MR. HEGARTY: Q. Which statements do you believe are false? A. The first sentence. Q. Any other statements? A. "Results from case" Q. I'm sorry. Go ahead.	2 3 4 5 6 7 8 9 10 11 12 13 14	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the prospective study was essentially made by the original report. Right. First of all, I think they made an incorrect they made an incorrect citation in this. But in any case, I believe that they were stating something about the approach of excluding two of the three cohort studies was sort of cherry-picking, and I believe that it was not,
2 3 4 5 6 7 8 9 10 11 12 13 14 15	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.) There are some statements here that I believe are false. BY MR. HEGARTY: Q. Which statements do you believe are false? A. The first sentence. Q. Any other statements? A. "Results from case" Q. I'm sorry. Go ahead. A. "Results from case-control and	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the prospective study was essentially made by the original report. Right. First of all, I think they made an incorrect they made an incorrect citation in this. But in any case, I believe that they were stating something about the approach of excluding two of the three cohort studies was sort of cherry-picking, and I believe that it was not, and that the other two cohort studies are are
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.) There are some statements here that I believe are false. BY MR. HEGARTY: Q. Which statements do you believe are false? A. The first sentence. Q. Any other statements? A. "Results from case" Q. I'm sorry. Go ahead. A. "Results from case-control and cohort studies are inconsistent, so the data are	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the prospective study was essentially made by the original report. Right. First of all, I think they made an incorrect they made an incorrect citation in this. But in any case, I believe that they were stating something about the approach of excluding two of the three cohort studies was sort of cherry-picking, and I believe that it was not, and that the other two cohort studies are are very much flawed in terms of selection bias and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.) There are some statements here that I believe are false. BY MR. HEGARTY: Q. Which statements do you believe are false? A. The first sentence. Q. Any other statements? A. "Results from case" Q. I'm sorry. Go ahead. A. "Results from case-control and cohort studies are inconsistent, so the data are inadequate to support an association between	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the prospective study was essentially made by the original report. Right. First of all, I think they made an incorrect they made an incorrect citation in this. But in any case, I believe that they were stating something about the approach of excluding two of the three cohort studies was sort of cherry-picking, and I believe that it was not, and that the other two cohort studies are are very much flawed in terms of selection bias and exposure assessment.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.) There are some statements here that I believe are false. BY MR. HEGARTY: Q. Which statements do you believe are false? A. The first sentence. Q. Any other statements? A. "Results from case" Q. I'm sorry. Go ahead. A. "Results from case-control and cohort studies are inconsistent, so the data are inadequate to support an association between perineal talc exposure and an increased risk of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the prospective study was essentially made by the original report. Right. First of all, I think they made an incorrect they made an incorrect citation in this. But in any case, I believe that they were stating something about the approach of excluding two of the three cohort studies was sort of cherry-picking, and I believe that it was not, and that the other two cohort studies are are very much flawed in terms of selection bias and exposure assessment. (Reviews document.)
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.) There are some statements here that I believe are false. BY MR. HEGARTY: Q. Which statements do you believe are false? A. The first sentence. Q. Any other statements? A. "Results from case" Q. I'm sorry. Go ahead. A. "Results from case-control and cohort studies are inconsistent, so the data are inadequate to support an association between perineal talc exposure and an increased risk of ovarian cancer."	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the prospective study was essentially made by the original report. Right. First of all, I think they made an incorrect they made an incorrect citation in this. But in any case, I believe that they were stating something about the approach of excluding two of the three cohort studies was sort of cherry-picking, and I believe that it was not, and that the other two cohort studies are are very much flawed in terms of selection bias and exposure assessment. (Reviews document.) Again, I feel that the first
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.) There are some statements here that I believe are false. BY MR. HEGARTY: Q. Which statements do you believe are false? A. The first sentence. Q. Any other statements? A. "Results from case" Q. I'm sorry. Go ahead. A. "Results from case-control and cohort studies are inconsistent, so the data are inadequate to support an association between perineal talc exposure and an increased risk of ovarian cancer." Q. What other statements do you contend	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the prospective study was essentially made by the original report. Right. First of all, I think they made an incorrect they made an incorrect citation in this. But in any case, I believe that they were stating something about the approach of excluding two of the three cohort studies was sort of cherry-picking, and I believe that it was not, and that the other two cohort studies are are very much flawed in terms of selection bias and exposure assessment. (Reviews document.) Again, I feel that the first sentence of the next paragraph where they chose to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.) There are some statements here that I believe are false. BY MR. HEGARTY: Q. Which statements do you believe are false? A. The first sentence. Q. Any other statements? A. "Results from case" Q. I'm sorry. Go ahead. A. "Results from case-control and cohort studies are inconsistent, so the data are inadequate to support an association between perineal talc exposure and an increased risk of ovarian cancer." Q. What other statements do you contend in that section are false?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the prospective study was essentially made by the original report. Right. First of all, I think they made an incorrect they made an incorrect citation in this. But in any case, I believe that they were stating something about the approach of excluding two of the three cohort studies was sort of cherry-picking, and I believe that it was not, and that the other two cohort studies are are very much flawed in terms of selection bias and exposure assessment. (Reviews document.) Again, I feel that the first sentence of the next paragraph where they chose to only discuss the overall association of 1.09 and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.) There are some statements here that I believe are false. BY MR. HEGARTY: Q. Which statements do you believe are false? A. The first sentence. Q. Any other statements? A. "Results from case" Q. I'm sorry. Go ahead. A. "Results from case-control and cohort studies are inconsistent, so the data are inadequate to support an association between perineal talc exposure and an increased risk of ovarian cancer." Q. What other statements do you contend in that section are false? A. Hang on a second. Right.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the prospective study was essentially made by the original report. Right. First of all, I think they made an incorrect they made an incorrect citation in this. But in any case, I believe that they were stating something about the approach of excluding two of the three cohort studies was sort of cherry-picking, and I believe that it was not, and that the other two cohort studies are are very much flawed in terms of selection bias and exposure assessment. (Reviews document.) Again, I feel that the first sentence of the next paragraph where they chose to only discuss the overall association of 1.09 and not the fact that there was stronger associations
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	"Perineal Talc Exposure" are false? MR. TISI: Objection. Take a look if you need to. THE WITNESS: (Reviews document.) There are some statements here that I believe are false. BY MR. HEGARTY: Q. Which statements do you believe are false? A. The first sentence. Q. Any other statements? A. "Results from case" Q. I'm sorry. Go ahead. A. "Results from case-control and cohort studies are inconsistent, so the data are inadequate to support an association between perineal talc exposure and an increased risk of ovarian cancer." Q. What other statements do you contend in that section are false?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Yes. A. Yeah. They they they said yeah, they yeah, they they were let's see. The subset analysis of the prospective study was essentially made by the original report. Right. First of all, I think they made an incorrect they made an incorrect citation in this. But in any case, I believe that they were stating something about the approach of excluding two of the three cohort studies was sort of cherry-picking, and I believe that it was not, and that the other two cohort studies are are very much flawed in terms of selection bias and exposure assessment. (Reviews document.) Again, I feel that the first sentence of the next paragraph where they chose to only discuss the overall association of 1.09 and

Page 282	Page 284
1 And I think any reference to the	1 incorrect?
2 Women's Health Initiative is flawed because they	2 A. Hold on a second. I might have made
3 didn't start recruiting women until after the age	3 a mistake, which can happen.
4 of 50, when many women who would have already been	4 (Reviews document.)
5 diagnosed with ovarian cancer could not have been	5 "Was inconsistent with the main
6 included, and so I find that to be a poor example	6 findings." The meaning of the statement is
7 of a cohort study to be used to assess this	7 unclear. The PDQ goes on to cite the Gertig
8 association.	8 analysis.
9 I think that's plenty.	9 That might have been an error in the
10 Q. You make the statement in your	10 citation there.
11 expert report at page 17	11 Q. You've read the Woolen paper,
12 A. Yes.	12 correct?
13 Q that the that with regard to	13 A. I have.
14 the comment on the Woolen study that they	14 Q. And you saw where they used a subse
15 "incorrectly cited in the PDQ report as O'Brien et	15 of data from the Nurses' Health Study 1, correct
16 al."	16 A. Yes.
Do you see where I'm referring you	17 Q. That subset of data was unpublished
18 to?	18 data, correct?
19 A. Yes, I do.	19 A. I believe they actually got it from
20 Q. What do you mean when you say	20 the Nurses' Health Study. That's my that's my
21 "incorrectly cited in the PDQ report as O'Brien et	21 understanding.
22 al."?	22 MR. HEGARTY: I'll mark so you
23 A. I believe they they made an error	23 can look at it
24 in which study they were citing. So.	24 THE WITNESS: Yeah.
Page 283	Page 285
1 Q. Why do you believe they made an	1 MR. HEGARTY: as Exhibit
2 error?	Number 19 the Woolen paper.
3 A. Because I thought that they cited	3 (Document marked for
4 the wrong they made the wrong citation.	4 identification as Harlow Exhibit 19.)
5 So what's inconsistent with the	5 THE WITNESS: Yeah.
So what's inconsistent with the	
6 meaning of this statement is unclear, but the PDO	
6 meaning of this statement is unclear, but the PDQ 7 goes on to cite the Gertig analysis.	6 BY MR. HEGARTY:
7 goes on to cite the Gertig analysis.	6 BY MR. HEGARTY: 7 Q. This is a paper you've read,
7 goes on to cite the Gertig analysis. 8 So in let's see. When they talk	6 BY MR. HEGARTY: 7 Q. This is a paper you've read, 8 correct?
7 goes on to cite the Gertig analysis. 8 So in let's see. When they talk 9 about the Gertig analysis, which is the 1.09,	6 BY MR. HEGARTY: 7 Q. This is a paper you've read, 8 correct? 9 A. Yes.
7 goes on to cite the Gertig analysis. 8 So in let's see. When they talk 9 about the Gertig analysis, which is the 1.09, 10 reference 13 no, that wasn't it. There was	 6 BY MR. HEGARTY: 7 Q. This is a paper you've read, 8 correct? 9 A. Yes. 10 Q. If you look over on the second page,
7 goes on to cite the Gertig analysis. 8 So in let's see. When they talk 9 about the Gertig analysis, which is the 1.09, 10 reference 13 no, that wasn't it. There was 11 another location I thought.	 6 BY MR. HEGARTY: 7 Q. This is a paper you've read, 8 correct? 9 A. Yes. 10 Q. If you look over on the second page, 11 in the upper right-hand corner, it describes that
7 goes on to cite the Gertig analysis. 8 So in let's see. When they talk 9 about the Gertig analysis, which is the 1.09, 10 reference 13 no, that wasn't it. There was 11 another location I thought. 12 Q. And the reason I ask you	 6 BY MR. HEGARTY: 7 Q. This is a paper you've read, 8 correct? 9 A. Yes. 10 Q. If you look over on the second page, 11 in the upper right-hand corner, it describes that 12 the it describes the data that they got from
7 goes on to cite the Gertig analysis. 8 So in let's see. When they talk 9 about the Gertig analysis, which is the 1.09, 10 reference 13 no, that wasn't it. There was 11 another location I thought. 12 Q. And the reason I ask you 13 A. Yeah.	6 BY MR. HEGARTY: 7 Q. This is a paper you've read, 8 correct? 9 A. Yes. 10 Q. If you look over on the second page, 11 in the upper right-hand corner, it describes that 12 the it describes the data that they got from 13 the Nurses' Health Study, correct?
7 goes on to cite the Gertig analysis. 8 So in let's see. When they talk 9 about the Gertig analysis, which is the 1.09, 10 reference 13 no, that wasn't it. There was 11 another location I thought. 12 Q. And the reason I ask you 13 A. Yeah. 14 Q is because at the end of that	6 BY MR. HEGARTY: 7 Q. This is a paper you've read, 8 correct? 9 A. Yes. 10 Q. If you look over on the second page, 11 in the upper right-hand corner, it describes that 12 the it describes the data that they got from 13 the Nurses' Health Study, correct? 14 In particular, if you look at the
7 goes on to cite the Gertig analysis. 8 So in let's see. When they talk 9 about the Gertig analysis, which is the 1.09, 10 reference 13 no, that wasn't it. There was 11 another location I thought. 12 Q. And the reason I ask you 13 A. Yeah. 14 Q is because at the end of that 15 sentence that you're referring to, it says:	6 BY MR. HEGARTY: 7 Q. This is a paper you've read, 8 correct? 9 A. Yes. 10 Q. If you look over on the second page, 11 in the upper right-hand corner, it describes that 12 the it describes the data that they got from 13 the Nurses' Health Study, correct? 14 In particular, if you look at the 15 very last couple of sentences, it says:
7 goes on to cite the Gertig analysis. 8 So in let's see. When they talk 9 about the Gertig analysis, which is the 1.09, 10 reference 13 no, that wasn't it. There was 11 another location I thought. 12 Q. And the reason I ask you 13 A. Yeah. 14 Q is because at the end of that 15 sentence that you're referring to, it says: 16 "The subset analysis" that same.	6 BY MR. HEGARTY: 7 Q. This is a paper you've read, 8 correct? 9 A. Yes. 10 Q. If you look over on the second page, 11 in the upper right-hand corner, it describes that 12 the it describes the data that they got from 13 the Nurses' Health Study, correct? 14 In particular, if you look at the 15 very last couple of sentences, it says: 16 "The data from NHS 1"
7 goes on to cite the Gertig analysis. 8 So in let's see. When they talk 9 about the Gertig analysis, which is the 1.09, 10 reference 13 no, that wasn't it. There was 11 another location I thought. 12 Q. And the reason I ask you 13 A. Yeah. 14 Q is because at the end of that 15 sentence that you're referring to, it says: 16 "The subset analysis" that same. 17 A. Oh.	6 BY MR. HEGARTY: 7 Q. This is a paper you've read, 8 correct? 9 A. Yes. 10 Q. If you look over on the second page, 11 in the upper right-hand corner, it describes that 12 the it describes the data that they got from 13 the Nurses' Health Study, correct? 14 In particular, if you look at the 15 very last couple of sentences, it says: 16 "The data from NHS 1" 17 MS. PARFITT: Mark, I'm sorry.
7 goes on to cite the Gertig analysis. 8 So in let's see. When they talk 9 about the Gertig analysis, which is the 1.09, 10 reference 13 no, that wasn't it. There was 11 another location I thought. 12 Q. And the reason I ask you 13 A. Yeah. 14 Q is because at the end of that 15 sentence that you're referring to, it says: 16 "The subset analysis" that same. 17 A. Oh. 18 Q. "The subset analysis of the	6 BY MR. HEGARTY: 7 Q. This is a paper you've read, 8 correct? 9 A. Yes. 10 Q. If you look over on the second page, 11 in the upper right-hand corner, it describes that 12 the it describes the data that they got from 13 the Nurses' Health Study, correct? 14 In particular, if you look at the 15 very last couple of sentences, it says: 16 "The data from NHS 1" 17 MS. PARFITT: Mark, I'm sorry. 18 Where are you?
7 goes on to cite the Gertig analysis. 8 So in let's see. When they talk 9 about the Gertig analysis, which is the 1.09, 10 reference 13 no, that wasn't it. There was 11 another location I thought. 12 Q. And the reason I ask you 13 A. Yeah. 14 Q is because at the end of that 15 sentence that you're referring to, it says: 16 "The subset analysis" that same. 17 A. Oh. 18 Q. "The subset analysis of the 19 prospective study was inconsistent with the main	6 BY MR. HEGARTY: 7 Q. This is a paper you've read, 8 correct? 9 A. Yes. 10 Q. If you look over on the second page, 11 in the upper right-hand corner, it describes that 12 the it describes the data that they got from 13 the Nurses' Health Study, correct? 14 In particular, if you look at the 15 very last couple of sentences, it says: 16 "The data from NHS 1" 17 MS. PARFITT: Mark, I'm sorry. 18 Where are you? 19 MR. HEGARTY: I'm on page
7 goes on to cite the Gertig analysis. 8 So in let's see. When they talk 9 about the Gertig analysis, which is the 1.09, 10 reference 13 no, that wasn't it. There was 11 another location I thought. 12 Q. And the reason I ask you 13 A. Yeah. 14 Q is because at the end of that 15 sentence that you're referring to, it says: 16 "The subset analysis" that same. 17 A. Oh. 18 Q. "The subset analysis of the 19 prospective study was inconsistent with the main 20 findings of the original report" refers to the	6 BY MR. HEGARTY: 7 Q. This is a paper you've read, 8 correct? 9 A. Yes. 10 Q. If you look over on the second page, 11 in the upper right-hand corner, it describes that 12 the it describes the data that they got from 13 the Nurses' Health Study, correct? 14 In particular, if you look at the 15 very last couple of sentences, it says: 16 "The data from NHS 1" 17 MS. PARFITT: Mark, I'm sorry. 18 Where are you? 19 MR. HEGARTY: I'm on page 20 THE WITNESS: 2527.
7 goes on to cite the Gertig analysis. 8 So in let's see. When they talk 9 about the Gertig analysis, which is the 1.09, 10 reference 13 no, that wasn't it. There was 11 another location I thought. 12 Q. And the reason I ask you 13 A. Yeah. 14 Q is because at the end of that 15 sentence that you're referring to, it says: 16 "The subset analysis" that same. 17 A. Oh. 18 Q. "The subset analysis of the 19 prospective study was inconsistent with the main 20 findings of the original report" refers to the 21 O'Brien study, correct?	6 BY MR. HEGARTY: 7 Q. This is a paper you've read, 8 correct? 9 A. Yes. 10 Q. If you look over on the second page, 11 in the upper right-hand corner, it describes that 12 the it describes the data that they got from 13 the Nurses' Health Study, correct? 14 In particular, if you look at the 15 very last couple of sentences, it says: 16 "The data from NHS 1" 17 MS. PARFITT: Mark, I'm sorry. 18 Where are you? 19 MR. HEGARTY: I'm on page 20 THE WITNESS: 2527. 21 MR. HEGARTY: 2527 in the
7 goes on to cite the Gertig analysis. 8 So in let's see. When they talk 9 about the Gertig analysis, which is the 1.09, 10 reference 13 no, that wasn't it. There was 11 another location I thought. 12 Q. And the reason I ask you 13 A. Yeah. 14 Q is because at the end of that 15 sentence that you're referring to, it says: 16 "The subset analysis" that same. 17 A. Oh. 18 Q. "The subset analysis of the 19 prospective study was inconsistent with the main 20 findings of the original report" refers to the 21 O'Brien study, correct? 22 A. Yeah.	6 BY MR. HEGARTY: 7 Q. This is a paper you've read, 8 correct? 9 A. Yes. 10 Q. If you look over on the second page, 11 in the upper right-hand corner, it describes that 12 the it describes the data that they got from 13 the Nurses' Health Study, correct? 14 In particular, if you look at the 15 very last couple of sentences, it says: 16 "The data from NHS 1" 17 MS. PARFITT: Mark, I'm sorry. 18 Where are you? 19 MR. HEGARTY: I'm on page 20 THE WITNESS: 2527. 21 MR. HEGARTY: 2527 in the 22 upper right-hand corner.
7 goes on to cite the Gertig analysis. 8 So in let's see. When they talk 9 about the Gertig analysis, which is the 1.09, 10 reference 13 no, that wasn't it. There was 11 another location I thought. 12 Q. And the reason I ask you 13 A. Yeah. 14 Q is because at the end of that 15 sentence that you're referring to, it says: 16 "The subset analysis" that same. 17 A. Oh. 18 Q. "The subset analysis of the 19 prospective study was inconsistent with the main 20 findings of the original report" refers to the 21 O'Brien study, correct?	6 BY MR. HEGARTY: 7 Q. This is a paper you've read, 8 correct? 9 A. Yes. 10 Q. If you look over on the second page, 11 in the upper right-hand corner, it describes that 12 the it describes the data that they got from 13 the Nurses' Health Study, correct? 14 In particular, if you look at the 15 very last couple of sentences, it says: 16 "The data from NHS 1" 17 MS. PARFITT: Mark, I'm sorry. 18 Where are you? 19 MR. HEGARTY: I'm on page 20 THE WITNESS: 2527. 21 MR. HEGARTY: 2527 in the

1	Page 286	1	Page 288
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Q. It says: "The data from NHS 1 were provided		me exactly where that is. BY MR. HEGARTY:
		$\frac{2}{3}$	
	and described in the Supplemental Table 1 and are		
	included in the systematic review. The data from	5	NCI PDQ. A. Okav. Let me just go back to the
	the SIS study were not provided to us due to the	6	A. Okay. Let me just go back to the NCI PDQ.
	small sample size of exposed individuals in the highest exposure category."	7	
8	What that section is saying is that		Q. Back to the section that you called
-		8 9	out in your report. A. Yes.
10	they got the data from the NHS 1 study, correct? A. That's correct.	10	
11			Q. And do you see where in the NCI PDQ it says:
	Q. And do you understand that that was unpublished data?	12	-
13	A. I don't know whether it was	١	"The subset analysis of the
		13	prospective study" that's the NHS study "was inconsistent with the main findings of the
	unpublished. They just got the actual data		original report" citing to O'Brien.
	itself. It may have been part of the Gertig	16	
	analysis.		So what they're saying there is that
17	Q. Please look over to page 2569 I'm		the subset analysis in Woolen was inconsistent
	sorry 2529.	1	with the overall reported findings from O'Brien,
19	At the very bottom where the	20	correct?
1	footnote is referring to, that is Footnote 5		MR. TISI: Objection.
	referring to O'Brien?	21 22	THE WITNESS: (Reviews
22	A. Yes.		document.)
23	Q. The NHS data.	23	Yes, it appears that they
24	Do you see where it says:	24	that they have additional they had
	Page 287		Page 289
1	"O'Brien did not publish on daily	1	additional information that was not part
2	exposure for the National Health Study	2	of it. That's correct.
3	participants. However, these data were available	1	
4	1	4	Q. So what they say or what they cite
5	A. Yes, I see that.		to for the statement that you called out in your
6	Q. Is that telling you that the data		report is accurate, correct?
1	that's reported as to as to Study 11 in the	7	MS. PARFITT: Objection.
	table above was unpublished data?	8	Sorry.
9	A. (Reviews document.)	9	MR. TISI: Objection.
10	It may have been. I just don't	10	THE WITNESS: Yeah, I may have
	know.	11	I may have misinterpreted that.
12	Q. And going back to your report, what	12	I was when I was looking at
	NCI is saying in this PDQ is that the findings in	13	this, my concern was that people felt
	Woolen, which represent a subset analysis, was inconsistent with the main findings of the	14 15	that the exclusion of the sisters health
	inconsistent with the main findings of the	16	study the Sister Study and the Women's Health Initiative were a concern on the
	original report, and they refer to O'Brien.	17	
17	So what they're saying there is that	1	part of the PDQ, and my belief was that
	the Woolen findings were inconsistent with the	18	it was an appropriate exclusion from
19			their analyses. BY MR. HEGARTY:
	2020 report.	1	
21	Do you see that?	21 22	Q. Ultimately, in the NCI PDQ, the
22	MR. TISI: Objection.	22 23	document itself says that: "Results from case-control and
	Micciatac		
23 24	Misstates. THE WITNESS: So show show	1	cohort studies are inconsistent, so the data are

	r agenb. 21		,
_	Page 290		Page 29
	inadequate to support an association between		doctors reading this NCI PDQ should not rely on it
	perineal talc exposure and an increased risk of		in treating their patients?
3	ovarian cancer."	3	A. What doctors?
4	That's what they say, correct?	4	Q. Doctors treating patients for
5	A. The first sentence there, which is	5	ovarian cancer.
6	what I disputed.	6	A. Well, if they're already treating
7	Q. You disagree with that?	7	them for ovarian cancer, it doesn't this
8	A. I correct.	8	doesn't relate to that. This doesn't provide
9	Q. And with regard to the Gertig study,	9	guidance on treatment approaches for it.
10	which you thought they intended to reference, that	10	Q. Is it your opinion that the summary
11	study, as we looked at earlier, reported no	11	that is in the NCI PDQ about perineal talc
	overall association between epithelial ovarian		exposure and ovarian cancer is not a reliable
	cancer and ever use of talc, correct?		summary?
14	A. They reported a 1.09 relative risk	14	A. Yes, I would agree with that.
	with a confidence interval of 0.86 to 1.37, which	15	Q. You can put that document aside for
	suggests that the risk falls somewhere between	_	the moment.
	there.	17	You make reference in your report
18	Q. Going back to the Board that we	18	MR. TISI: How long have we
	talked about earlier, the NCI PDQ Board.	19	been on the record?
20	A. Yes.	20	MR. HEGARTY: You want to take
21	Q. Is it your contention that they	21	a break?
	failed in their responsibility to doctors to put	22	MR. TISI: I just want to take
	out accurate statements about the risk factors for	23	
	ovarian cancer, in particular perineal talc	23	every hour or so. MR. HEGARTY: Sure. Let's go
		24	
1	Page 291 exposure?	1	Page 2' off the record.
2	A. I	2	(Recess: 2:58 p.m
3	MR. TISI: Objection.	3	3:10 p.m.)
4	THE WITNESS: Well, I believe	4	MR. HEGARTY: We are back on
5	I went through the error besides the		
	_	5	the record. BY MR. HEGARTY:
6	issue that I may have misinterpreted,		
7	there were several other statements that	7	Q. Doctor, I want to shift gears a
8	I indicated that I felt were misleading.	8	, , ,
		9	•
10		10	A. No, I'll wait till later.
11		11	Q. Okay.
12	Is it your contention that the PDQ	12	MR. TISI: Well, if you do
	Board members failed in their responsibilities to	13	have something else to say, go ahead.
	doctors to put out accurate statements about	14	THE WITNESS: Well
	perineal talc use and ovarian cancer?		BY MR. HEGARTY:
16	<i>c</i> , <i>c</i>	16	Q. You have something you want to say
17			
	studies are inconsistent, so the data are	18	the NCI PDQ?
	inadequate to support an association between	19	A. Yes. Just the fact that in this
20	perineal talc exposure and an increased risk of	20	sentence where it says "The subset analysis of the
21	ovarian cancer" is a I would say, yes, they	21	prospective study was inconsistent with the main
22	failed in their duty to accurately accurately	22	findings of the original report," when I think
23	explain the results.	23	about the original report of the Nurses' Health
		١ ـ .	~

Document 33008-56

PageID: 211287

24 Study, which is what that prospective study is, I

Q.

Is it your contention that the

24

	Pres 200
1 was assuming they were referring to Gertig b	Page 294 Page 296 vecause 1 Q. Are you aware, though, that there
2 that was the original.	2 was a follow-up study
3 I didn't but, in fact, in this,	3 MR. TISI: Do you need the
4 which is very confusing, they talk about the	4 article?
5 original report as being O'Brien. But that wa	
6 the original report. Because the sentence bef	
7 that was talking about Woolen.	7 Q. Are you aware that there was a
8 So they talk about Woolen finding	8 follow-up study done reported with the first
9 the 1.47, but then they say "The subset analy.	
10 of the prospective study," which they say was	
11 was done by which was the prospective	_
12 "The subset analysis of the prospective study	
13 inconsistent with the main findings of the	13 sorry the Gates 2010 study?
14 original report."	14 A. I believe I did.
Well, when you talk about the	15 MR. HEGARTY: I've marked as
16 original report, there's no reference to O'Brie	
17 report here. The reference should be to ma	
18 they didn't mean it to be original report, but	18 (Document marked for
19 that's the reason why I thought it should have	,
20 been Gertig and not O'Brien.	20 BY MR. HEGARTY:
21 Q. Okay.	21 Q. Have you read Exhibit Number 10, the
22 A. And that was my that was the	22 Gates 2010 study?
23 confusion there.	23 A. Yes.
24 Q. Okay. Thank you.	24 Q. Exhibit 20. I'm sorry.
I	
	Page 295 Page 297
1 You make reference in your report a	Page 295 It 1 A. Yes, I know that I had reviewed
1 You make reference in your report a 2 several places to the finding from the Gertig	1 A. Yes, I know that I had reviewed
2 several places to the finding from the Gertig	1 A. Yes, I know that I had reviewed 2 this.
2 several places to the finding from the Gertig3 study about the relative risk or, I should say,	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20,
2 several places to the finding from the Gertig	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20,
 2 several places to the finding from the Gertig 3 study about the relative risk or, I should say, 4 odds ratios reported for serous cancer, correct 5 A. Yes. 	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20, 4 the Gates 2010 study? 5 A. Yeah, I have it in front of me.
 2 several places to the finding from the Gertig 3 study about the relative risk or, I should say, 4 odds ratios reported for serous cancer, correct 5 A. Yes. 	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20, 4 the Gates 2010 study? 5 A. Yeah, I have it in front of me. 6 Yes.
 2 several places to the finding from the Gertig 3 study about the relative risk or, I should say, 4 odds ratios reported for serous cancer, correct 5 A. Yes. 6 Q. The authors, as you know, reported 	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20, 4 the Gates 2010 study? 5 A. Yeah, I have it in front of me. 6 Yes.
 2 several places to the finding from the Gertig 3 study about the relative risk or, I should say, 4 odds ratios reported for serous cancer, correct 5 A. Yes. 6 Q. The authors, as you know, reported 7 an odds ratio of 1.40 from that 2000 Gertig st 	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20, 4 the Gates 2010 study? 5 A. Yeah, I have it in front of me. 6 Yes. tudy, 7 Yes, I had read that. 8 Q. Please turn over to Table 4 on page
 2 several places to the finding from the Gertig 3 study about the relative risk or, I should say, 4 odds ratios reported for serous cancer, correct 5 A. Yes. 6 Q. The authors, as you know, reported 7 an odds ratio of 1.40 from that 2000 Gertig st 8 correct? 	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20, 4 the Gates 2010 study? 5 A. Yeah, I have it in front of me. 6 Yes. tudy, 7 Yes, I had read that. 8 Q. Please turn over to Table 4 on page
 2 several places to the finding from the Gertig 3 study about the relative risk or, I should say, 4 odds ratios reported for serous cancer, correct 5 A. Yes. 6 Q. The authors, as you know, reported 7 an odds ratio of 1.40 from that 2000 Gertig st 8 correct? 9 A. Let me just just give me a mome 	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20, 4 the Gates 2010 study? 5 A. Yeah, I have it in front of me. 6 Yes. tudy, 7 Yes, I had read that. 8 Q. Please turn over to Table 4 on page nt 9 50 of that study.
 2 several places to the finding from the Gertig 3 study about the relative risk or, I should say, 4 odds ratios reported for serous cancer, correct 5 A. Yes. 6 Q. The authors, as you know, reported 7 an odds ratio of 1.40 from that 2000 Gertig st 8 correct? 9 A. Let me just just give me a mome 10 to to get the Gertig study open and take a 	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20, 4 the Gates 2010 study? 5 A. Yeah, I have it in front of me. 6 Yes. tudy, 7 Yes, I had read that. 8 Q. Please turn over to Table 4 on page nt 9 50 of that study. 10 Tell me when you're there. 11 A. I'm there. 12 Q. The authors reported that as to talc
 2 several places to the finding from the Gertig 3 study about the relative risk or, I should say, 4 odds ratios reported for serous cancer, correct 5 A. Yes. 6 Q. The authors, as you know, reported 7 an odds ratio of 1.40 from that 2000 Gertig st 8 correct? 9 A. Let me just just give me a mome 10 to to get the Gertig study open and take a 11 look. 	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20, 4 the Gates 2010 study? 5 A. Yeah, I have it in front of me. 6 Yes. tudy, 7 Yes, I had read that. 8 Q. Please turn over to Table 4 on page nt 9 50 of that study. 10 Tell me when you're there. 11 A. I'm there. 12 Q. The authors reported that as to talc 13 and serous invasive ovarian cancer, the relative
2 several places to the finding from the Gertig 3 study about the relative risk or, I should say, 4 odds ratios reported for serous cancer, correct 5 A. Yes. 6 Q. The authors, as you know, reported 7 an odds ratio of 1.40 from that 2000 Gertig st 8 correct? 9 A. Let me just just give me a mome 10 to to get the Gertig study open and take a 11 look. 12 Okay. So now can you repeat the	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20, 4 the Gates 2010 study? 5 A. Yeah, I have it in front of me. 6 Yes. tudy, 7 Yes, I had read that. 8 Q. Please turn over to Table 4 on page nt 9 50 of that study. 10 Tell me when you're there. 11 A. I'm there. 12 Q. The authors reported that as to talc
 2 several places to the finding from the Gertig 3 study about the relative risk or, I should say, 4 odds ratios reported for serous cancer, correct 5 A. Yes. 6 Q. The authors, as you know, reported 7 an odds ratio of 1.40 from that 2000 Gertig st 8 correct? 9 A. Let me just just give me a mome 10 to to get the Gertig study open and take a 11 look. 12 Okay. So now can you repeat the 13 question? 14 Q. Sure. 15 You make reference in your report 	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20, 4 the Gates 2010 study? 5 A. Yeah, I have it in front of me. 6 Yes. tudy, 7 Yes, I had read that. 8 Q. Please turn over to Table 4 on page nt 9 50 of that study. 10 Tell me when you're there. 11 A. I'm there. 12 Q. The authors reported that as to talc 13 and serous invasive ovarian cancer, the relative 14 risk they found 10 years later with 10 years 15 additional data was 1.06 with a confidence
2 several places to the finding from the Gertig 3 study about the relative risk or, I should say, 4 odds ratios reported for serous cancer, correct 5 A. Yes. 6 Q. The authors, as you know, reported 7 an odds ratio of 1.40 from that 2000 Gertig st 8 correct? 9 A. Let me just just give me a mome 10 to to get the Gertig study open and take a 11 look. 12 Okay. So now can you repeat the 13 question? 14 Q. Sure. 15 You make reference in your report - 16 A. Oh, in my report.	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20, 4 the Gates 2010 study? 5 A. Yeah, I have it in front of me. 6 Yes. tudy, 7 Yes, I had read that. 8 Q. Please turn over to Table 4 on page nt 9 50 of that study. 10 Tell me when you're there. 11 A. I'm there. 12 Q. The authors reported that as to talc 13 and serous invasive ovarian cancer, the relative 14 risk they found 10 years later with 10 years 15 additional data was 1.06 with a confidence 16 interval of .84 to 1.35, correct?
2 several places to the finding from the Gertig 3 study about the relative risk or, I should say, 4 odds ratios reported for serous cancer, correct 5 A. Yes. 6 Q. The authors, as you know, reported 7 an odds ratio of 1.40 from that 2000 Gertig st 8 correct? 9 A. Let me just just give me a mome 10 to to get the Gertig study open and take a 11 look. 12 Okay. So now can you repeat the 13 question? 14 Q. Sure. 15 You make reference in your report - 16 A. Oh, in my report. 17 Q to the finding from Gertig of	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20, 4 the Gates 2010 study? 5 A. Yeah, I have it in front of me. 6 Yes. tudy, 7 Yes, I had read that. 8 Q. Please turn over to Table 4 on page nt 9 50 of that study. 10 Tell me when you're there. 11 A. I'm there. 12 Q. The authors reported that as to talc 13 and serous invasive ovarian cancer, the relative 14 risk they found 10 years later with 10 years 15 additional data was 1.06 with a confidence 16 interval of .84 to 1.35, correct? 17 A. That is correct, but it's only for
2 several places to the finding from the Gertig 3 study about the relative risk or, I should say, 4 odds ratios reported for serous cancer, correct 5 A. Yes. 6 Q. The authors, as you know, reported 7 an odds ratio of 1.40 from that 2000 Gertig st 8 correct? 9 A. Let me just just give me a mome 10 to to get the Gertig study open and take a 11 look. 12 Okay. So now can you repeat the 13 question? 14 Q. Sure. 15 You make reference in your report - 16 A. Oh, in my report. 17 Q to the finding from Gertig of 18 1.04 odds ratio for serous adenocarcinoma.	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20, 4 the Gates 2010 study? 5 A. Yeah, I have it in front of me. 6 Yes. tudy, 7 Yes, I had read that. 8 Q. Please turn over to Table 4 on page nt 9 50 of that study. 10 Tell me when you're there. 11 A. I'm there. 12 Q. The authors reported that as to talc 13 and serous invasive ovarian cancer, the relative 14 risk they found 10 years later with 10 years 15 additional data was 1.06 with a confidence 16 interval of .84 to 1.35, correct? 17 A. That is correct, but it's only for 18 dichotomous of exposure, greater than once per
2 several places to the finding from the Gertig 3 study about the relative risk or, I should say, 4 odds ratios reported for serous cancer, correct 5 A. Yes. 6 Q. The authors, as you know, reported 7 an odds ratio of 1.40 from that 2000 Gertig st 8 correct? 9 A. Let me just just give me a mome 10 to to get the Gertig study open and take a 11 look. 12 Okay. So now can you repeat the 13 question? 14 Q. Sure. 15 You make reference in your report - 16 A. Oh, in my report. 17 Q to the finding from Gertig of 18 1.04 odds ratio for serous adenocarcinoma. 19 A. Oh. I believe so.	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20, 4 the Gates 2010 study? 5 A. Yeah, I have it in front of me. 6 Yes. tudy, 7 Yes, I had read that. 8 Q. Please turn over to Table 4 on page nt 9 50 of that study. 10 Tell me when you're there. 11 A. I'm there. 12 Q. The authors reported that as to talc 13 and serous invasive ovarian cancer, the relative 14 risk they found 10 years later with 10 years 15 additional data was 1.06 with a confidence 16 interval of .84 to 1.35, correct? 17 A. That is correct, but it's only for 18 dichotomous of exposure, greater than once per 19 week or less than once per week.
2 several places to the finding from the Gertig 3 study about the relative risk or, I should say, 4 odds ratios reported for serous cancer, correct 5 A. Yes. 6 Q. The authors, as you know, reported 7 an odds ratio of 1.40 from that 2000 Gertig st 8 correct? 9 A. Let me just just give me a mome 10 to to get the Gertig study open and take a 11 look. 12 Okay. So now can you repeat the 13 question? 14 Q. Sure. 15 You make reference in your report - 16 A. Oh, in my report. 17 Q to the finding from Gertig of 18 1.04 odds ratio for serous adenocarcinoma. 19 A. Oh. I believe so. 20 Again, let me just go to that. That	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20, 4 the Gates 2010 study? 5 A. Yeah, I have it in front of me. 6 Yes. tudy, 7 Yes, I had read that. 8 Q. Please turn over to Table 4 on page nt 9 50 of that study. 10 Tell me when you're there. 11 A. I'm there. 12 Q. The authors reported that as to talc 13 and serous invasive ovarian cancer, the relative 14 risk they found 10 years later with 10 years 15 additional data was 1.06 with a confidence 16 interval of .84 to 1.35, correct? 17 A. That is correct, but it's only for 18 dichotomous of exposure, greater than once per 19 week or less than once per week. 20 Q. Did you do any analysis as to
2 several places to the finding from the Gertig 3 study about the relative risk or, I should say, 4 odds ratios reported for serous cancer, correct 5 A. Yes. 6 Q. The authors, as you know, reported 7 an odds ratio of 1.40 from that 2000 Gertig st 8 correct? 9 A. Let me just just give me a mome 10 to to get the Gertig study open and take a 11 look. 12 Okay. So now can you repeat the 13 question? 14 Q. Sure. 15 You make reference in your report - 16 A. Oh, in my report. 17 Q to the finding from Gertig of 18 1.04 odds ratio for serous adenocarcinoma. 19 A. Oh. I believe so. 20 Again, let me just go to that. That 21 was with the Nurses' Health Study.	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20, 4 the Gates 2010 study? 5 A. Yeah, I have it in front of me. 6 Yes. tudy, 7 Yes, I had read that. 8 Q. Please turn over to Table 4 on page 9 50 of that study. 10 Tell me when you're there. 11 A. I'm there. 12 Q. The authors reported that as to talc 13 and serous invasive ovarian cancer, the relative 14 risk they found 10 years later with 10 years 15 additional data was 1.06 with a confidence 16 interval of .84 to 1.35, correct? 17 A. That is correct, but it's only for 18 dichotomous of exposure, greater than once per 19 week or less than once per week. 20 Q. Did you do any analysis as to 21 whether that is a different result than ever
2 several places to the finding from the Gertig 3 study about the relative risk or, I should say, 4 odds ratios reported for serous cancer, correct 5 A. Yes. 6 Q. The authors, as you know, reported 7 an odds ratio of 1.40 from that 2000 Gertig st 8 correct? 9 A. Let me just just give me a mome 10 to to get the Gertig study open and take a 11 look. 12 Okay. So now can you repeat the 13 question? 14 Q. Sure. 15 You make reference in your report - 16 A. Oh, in my report. 17 Q to the finding from Gertig of 18 1.04 odds ratio for serous adenocarcinoma. 19 A. Oh. I believe so. 20 Again, let me just go to that. That 21 was with the Nurses' Health Study. 22 1.40 they report odds ratio for	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20, 4 the Gates 2010 study? 5 A. Yeah, I have it in front of me. 6 Yes. tudy, 7 Yes, I had read that. 8 Q. Please turn over to Table 4 on page nt 9 50 of that study. 10 Tell me when you're there. 11 A. I'm there. 12 Q. The authors reported that as to talc 13 and serous invasive ovarian cancer, the relative 14 risk they found 10 years later with 10 years 15 additional data was 1.06 with a confidence 16 interval of .84 to 1.35, correct? 17 A. That is correct, but it's only for 18 dichotomous of exposure, greater than once per 19 week or less than once per week. 20 Q. Did you do any analysis as to 21 whether that is a different result than ever 22 never?
2 several places to the finding from the Gertig 3 study about the relative risk or, I should say, 4 odds ratios reported for serous cancer, correct 5 A. Yes. 6 Q. The authors, as you know, reported 7 an odds ratio of 1.40 from that 2000 Gertig st 8 correct? 9 A. Let me just just give me a mome 10 to to get the Gertig study open and take a 11 look. 12 Okay. So now can you repeat the 13 question? 14 Q. Sure. 15 You make reference in your report - 16 A. Oh, in my report. 17 Q to the finding from Gertig of 18 1.04 odds ratio for serous adenocarcinoma. 19 A. Oh. I believe so. 20 Again, let me just go to that. That 21 was with the Nurses' Health Study.	1 A. Yes, I know that I had reviewed 2 this. 3 Q. So have you read Exhibit Number 20, 4 the Gates 2010 study? 5 A. Yeah, I have it in front of me. 6 Yes. tudy, 7 Yes, I had read that. 8 Q. Please turn over to Table 4 on page 9 50 of that study. 10 Tell me when you're there. 11 A. I'm there. 12 Q. The authors reported that as to talc 13 and serous invasive ovarian cancer, the relative 14 risk they found 10 years later with 10 years 15 additional data was 1.06 with a confidence 16 interval of .84 to 1.35, correct? 17 A. That is correct, but it's only for 18 dichotomous of exposure, greater than once per 19 week or less than once per week. 20 Q. Did you do any analysis as to 21 whether that is a different result than ever

	Page 298		Page 30
1	about that, greater than let me just see. Let	1	the exposures that they that they chose to look
	me look.		at with regard to talcum powder use and serous
3	"Estimates were adjusted for all		invasive ovarian cancer, correct?
	variables."	4	A. Yes. Yes.
5	Well, I don't know whether the less	5	Q. That number is quite different than
	than once per week includes those who were	-	the 1.40 number that you reference in your report
	unexposed as well.		from Gertig 2000, correct?
8	I'm just looking to see if that's	8	MR. TISI: Objection.
	the case.	9	THE WITNESS: Well, it's
0	Because if it does not, if it if	10	
	it mixes together those who were unexposed with	11	shifting down of the association because
	those who were exposed less than once a week, then	12	of the mixing of the effects of exposed
	it would naturally attenuate the association.	13	and unexposed in the in the reference
4	Q. In preparing your report, you did	14	•
	not make reference to this finding from Gates,		BY MR. HEGARTY:
	correct?	16	Q. Have you done any analysis as to
7	A. No, I didn't. I don't believe I		what that mixing effect had on the overall number?
	did.	18	A. I don't need to do that. Because if
9	Q. Did you consciously make a decision		you believe that that and as it's been shown
	not to refer to this finding from the Gates 2010		in a number of studies that any use of talc is
	study?		associated with about 1.3 excess risk, if you take
2	A. I did not consciously make that		some of those people who were exposed and put th
	decision. It's there's no new data. All it was		into the reference group, it's going to attenuate
	was additional it was additional follow-up		the association.
_		27	
1	Page 299		Page 30
	period of time.	1	Q. There are a number of studies that
2	Q. Isn't this, though, at least some		you don't cite that found as far as for serous
	data that is contrary to the 1.4 odds ratio		adenocarcinoma, serous invasive adenocarcinoma,
	finding from the Gertig 2000 paper as it relates		statistically significant increase in risk. Those
	to serous invasive tumors?		include Houghton. They include the O'Brien study
6	A. Let me look at the Gertig.	6	Are you aware of that?
7	It's actually again, it's it's	7	MR. TISI: Objection.
	quite different. Because in the Gertig paper,	8	THE WITNESS: I guess I'd
	they left those who were completely unexposed as	9	like to look at those. I mean, the
	unexposed as the reference, and then they looked	10	1
	at those who were exposed.	11	not every study is going to show exactly
2	Here you have a mixing of unexposed	12	E
	and exposed in the reference category.		BY MR. HEGARTY:
4	Q. Going back to my question, though,	14	
	is that it is at least some data that (voice		way.
	speaking on phone) relates to the odds ratio or	16	6
	point estimate for serous invasive ovarian cancer	17	, , ,
	and talcum powder use from that Gertig data,	18	
	correct?	19	
0.	A. I'm sorry. Repeat. Repeat the	20	•
1	question.	21	3:22 p.m.)
22	Q. Sure. I apologize.	22	MR. HEGARTY: So we are back
	A. No worries.	23	41
3	A. NO WOITIES.	23	on the record.

Document 33008-56

24 BY MR. HEGARTY:

Q.

You do agree it is data reporting on

24

Page 302

Document 33008-56

PageID: 211290

- When we interrupted -- when we broke 1 Q. 2 very quickly, I had a question pending. Let me
- 3 restate that.
- 4 A. Please.
- 5 O. Are you aware that some studies have
- 6 reported odds ratios of relative risk for talcum
- 7 powder use and serous invasive ovarian cancer that
- 8 were not statistically significant?
- 9 Oh. Yes.
- 10 O. Those included the WHI Houghton
- 11 study, correct?
- 12 Yes, but I might want to point out
- 13 that their association was pretty much consistent
- 14 with what we've seen in the other studies, being
- 15 1.13 as an association with a confidence interval
- 16 of 0.84 to 1.51 and in the -- and that's in the
- 17 WHI, which in and of itself I've already suggested
- 18 underestimates the association because of the fact
- 19 that they only include women 50 years of age and
- 20 older.
- 21 And then in the O'Brien study,
- 22 actually, if you look at the serous for frequent
- 23 users, it's got a confidence interval of 0.9 to
- 24 1.28. So, again, that's also -- that's also
- Page 303

1

- 1 comparable given that they're mixing in in this
- 2 study, the WHI and the Sister Study, which have
- 3 significant exposure assessment flaws.
- Both of those point estimates that
- 5 you cite to are not statistically significant,
- 6 correct?
- A. They -- the confidence interval
- 8 includes 1, but it doesn't mean that it's a null
- 9 association.
- 10 Where a confidence interval Q.
- 11 includes 1, the result could be due to chance,
- 12 correct?
- 13 A. Well, even a confidence interval
- 14 that doesn't include 1 could be due to chance.
- But a confidence interval that
- 16 includes 1 means that the real point estimate
- 17 could be 1.0?
- It could be 1.0, but it's not likely 18
- 19 to be skewed toward the lower end. It's likely to
- 20 be somewhere in the middle.
- You don't reference anywhere --21
- 22 anywhere in your report the serous invasive
- 23 findings from Houghton or from O'Brien, correct?
- 24 I'd have to look in -- I'd have to Α

Page 304

- 1 look in my report for those particular reviews,
- 2 but let me just quickly do that if I may.
- 3 So for the Women's Health
- 4 Initiative, yes, I do. Multivariate adjusted
- 5 hazard ratio for serous ovarian tumors was 1.16
- 6 with a confidence interval of 0.88 to 1.53.
- 7 And for -- I'm sorry. What was the
- 8 other one?
- 9 O'Brien 2020. Q.
- 10 A. Oh, yeah.
- And for O'Brien, I don't believe I 11
- 12 -- I don't talk about that one in my summary in
- 13 the report.
- 14 Let me ask you some basic Q.
- 15 information, or let me ask you about some basic
- 16 information.
- 17 Α. Yeah.
- 18 0. The cancer at issue, as we've been
- 19 talking about, is ovarian cancer, correct?
- 20 The cancer at issue is the ovarian
- 21 cancer, yes.
- 22 You have not been involved in the
- 23 care and treatment of any patient who has had
- 24 ovarian cancer, correct?

Page 305

- A. I am not a physician.
- 2 Q. You have no medical training in
- 3 gynecologic oncology, correct?
- 4 That is correct. A.
- 5 Q. You have no expertise in diagnosing
- 6 ovarian cancer, correct?
- 7 A. I am not a clinician.
- 8 You have no expertise in diagnosing Q.
- 9 mesothelioma, correct?
- 10 A. Correct.
- 11 You have no expertise in analyzing a
- 12 patient's risk factors for ovarian cancer,
- 13 correct?
- 14 Let me ask it a different way.
- 15 You have never analyzed a patient's
- 16 risk factors for ovarian cancer outside of work
- 17 you've done for litigation, correct?
- 18 A. Correct.
- 19 MR. TISI: Object.
- 20 BY MR. HEGARTY:
- 21 Outside of litigation, you've never
- 22 attempted to look at a particular patient's
- 23 various risk factors and identify which, if any,
- 24 may have contributed to the development of her

	Page 306			Page 308
1	ovarian cancer, correct?	1	A.	That is a fair statement.
2	A. I've always worked at the population	2	Q.	You're also not an expert on animal
3	level.	3	studies,	true?
4	Q. Outside of perhaps the cases you've	4	A.	That's true.
5	consulted on for litigation, you never came to the	5	Q.	You're not an expert on cell
6	opinion that talc caused any woman's ovarian	6	studies,	correct?
7	cancer, correct?	7	A.	That's true.
8	MR. TISI: Objection.	8	Q.	Do you consider yourself an expert
9	THE WITNESS: I have not	9	on tale	as a mineral?
10	published any or made any kind of	10	A.	I consider myself an expert on the
11	statement regarding that.	11	_	iologic data looking at the association
12	BY MR. HEGARTY:	12	betweer	n tale and ovarian cancer.
13	Q. And regardless of publishing or	13	Q.	Do you consider yourself an expert
14	making any statement, you have not concluded, even			to be do you consider yourself to be
15	where you have not shared it with anyone, that any	15	an expe	rt on the mineralogy of talc?
16	particular patient's ovarian cancer was caused by	16	A.	No, I do not.
17	talcum powder use, correct?	17	Q.	You are not a geneticist, correct?
18	A. No, because I would not have been in	18	A.	That is correct.
1	position to do that.	19	Q.	You're not a mineralogist, correct?
20	Q. You also never came to the opinion	20	A.	That is correct.
	that any woman's exposure to asbestos caused her	21	Q.	You're not an industrial hygienist,
1	ovarian cancer, correct?	22	correct?	
23	A. I have not been in position to do	23	A.	That's correct.
24	that.	24	Q.	You're not an expert in geology,
	Page 307			Page 309
1	Page 307 Q. And you've never told a patient that	1	correct?	Page 309
		1 2	correct?	Page 309
	Q. And you've never told a patient thather talc use caused her ovarian cancer, correct?A. I am not a clinician.			
2	 Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use 	2 3 4	A. Q. say you'r	No. You have not studied where you can re an expert on Johnson's Baby Powder,
2 3 4 5	 Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? 	2 3 4 5	A. Q. say you'r that is, w	No. You have not studied where you can re an expert on Johnson's Baby Powder, where it's mined from, how it's
2 3 4 5 6	 Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? A. Correct. Well, my daughter. 	2 3 4 5	A. Q. say you'r that is, w	No. You have not studied where you can re an expert on Johnson's Baby Powder, where it's mined from, how it's d, how it's tested, things like that?
2 3 4 5 6 7	Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? A. Correct. Well, my daughter. (Laugh).	2 3 4 5	A. Q. say you'r that is, w	No. You have not studied where you can re an expert on Johnson's Baby Powder, where it's mined from, how it's
2 3 4 5 6 7 8	Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? A. Correct. Well, my daughter. (Laugh). Q. You have told your daughter not to	2 3 4 5 6 7	A. Q. say you'r that is, w processed A. literature	No. You have not studied where you can re an expert on Johnson's Baby Powder, rehere it's mined from, how it's d, how it's tested, things like that? No, only what I've read in the
2 3 4 5 6 7 8 9	Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? A. Correct. Well, my daughter. (Laugh). Q. You have told your daughter not to use talc?	2 3 4 5 6 7 8 9	A. Q. say you'r that is, w processed A. literature Q.	No. You have not studied where you can re an expert on Johnson's Baby Powder, where it's mined from, how it's d, how it's tested, things like that? No, only what I've read in the the Have you read in the literature the
2 3 4 5 6 7 8 9 10	Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? A. Correct. Well, my daughter. (Laugh). Q. You have told your daughter not to use talc? A. Yes.	2 3 4 5 6 7 8 9 10	A. Q. say you'r that is, w processed A. literature Q. details of	No. You have not studied where you can re an expert on Johnson's Baby Powder, where it's mined from, how it's d, how it's tested, things like that? No, only what I've read in the Have you read in the literature the f where Johnson & Johnson has has had
2 3 4 5 6 7 8 9 10	Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? A. Correct. Well, my daughter. (Laugh). Q. You have told your daughter not to use talc? A. Yes. Q. When did you tell her that?	2 3 4 5 6 7 8 9 10	A. Q. say you'r that is, w processed A. literature Q. details of its talc m	No. You have not studied where you can re an expert on Johnson's Baby Powder, where it's mined from, how it's d, how it's tested, things like that? No, only what I've read in the the state of where Johnson & Johnson has has had beined from, what the processes are for
2 3 4 5 6 7 8 9 10 11 12	Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? A. Correct. Well, my daughter. (Laugh). Q. You have told your daughter not to use talc? A. Yes. Q. When did you tell her that? A. I don't know. Growing up, when I've	2 3 4 5 6 7 8 9 10 11 12	A. Q. say you'r that is, w processed A. literature Q. details of its talc m mining a	No. You have not studied where you can re an expert on Johnson's Baby Powder, where it's mined from, how it's d, how it's tested, things like that? No, only what I've read in the standard the literature the f where Johnson & Johnson has has had ained from, what the processes are for nd processing the talc, what tests have
2 3 4 5 6 7 8 9 10 11 12 13	Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? A. Correct. Well, my daughter. (Laugh). Q. You have told your daughter not to use talc? A. Yes. Q. When did you tell her that? A. I don't know. Growing up, when I've been doing this work for a long time.	2 3 4 5 6 7 8 9 10 11 12 13	A. Q. say you'r that is, w processed A. literature Q. details of its talc m mining a been don	No. You have not studied where you can re an expert on Johnson's Baby Powder, where it's mined from, how it's d, how it's tested, things like that? No, only what I've read in the standard the standard from, what the processes are for a processing the talc, what tests have the for asbestos? Have you read that in the
2 3 4 5 6 7 8 9 10 11 12 13 14	Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? A. Correct. Well, my daughter. (Laugh). Q. You have told your daughter not to use talc? A. Yes. Q. When did you tell her that? A. I don't know. Growing up, when I've been doing this work for a long time. Q. Other than your daughter, have you	2 3 4 5 6 7 8 9 10 11 12 13 14	A. Q. say you'r that is, w processed A. literature Q. details of its talc m mining a been don literature	No. You have not studied where you can be an expert on Johnson's Baby Powder, where it's mined from, how it's d, how it's tested, things like that? No, only what I've read in the literature the f where Johnson & Johnson has has had be ined from, what the processes are for not processing the talc, what tests have the for asbestos? Have you read that in the literature the for asbestos? Have you read that in the literature the for asbestos?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? A. Correct. Well, my daughter. (Laugh). Q. You have told your daughter not to use talc? A. Yes. Q. When did you tell her that? A. I don't know. Growing up, when I've been doing this work for a long time. Q. Other than your daughter, have you ever told a woman not to use talc?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Q. say you'r that is, w processed A. literature Q. details of its talc m mining a been don literature A.	No. You have not studied where you can be an expert on Johnson's Baby Powder, where it's mined from, how it's d, how it's tested, things like that? No, only what I've read in the standard the standard from, what the processes are for and processing the talc, what tests have the for asbestos? Have you read that in the standard from the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? A. Correct. Well, my daughter. (Laugh). Q. You have told your daughter not to use talc? A. Yes. Q. When did you tell her that? A. I don't know. Growing up, when I've been doing this work for a long time. Q. Other than your daughter, have you ever told a woman not to use talc? A. No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Q. say you'r that is, w processed A. literature Q. details of its talc m mining a been don literature A. Q.	No. You have not studied where you can be an expert on Johnson's Baby Powder, where it's mined from, how it's d, how it's tested, things like that? No, only what I've read in the standard the standard from, what the processes are for and processing the talc, what tests have be for asbestos? Have you read that in the standard from, what the processes are for and processing the talc, what tests have be for asbestos? Have you read that in the standard from, what the processes are for asbestos? Have you read that in the standard from the standard fro
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? A. Correct. Well, my daughter. (Laugh). Q. You have told your daughter not to use talc? A. Yes. Q. When did you tell her that? A. I don't know. Growing up, when I've been doing this work for a long time. Q. Other than your daughter, have you ever told a woman not to use talc? A. No. Q. Have you ever recommended to any	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Q. say you'r that is, w processed A. literature Q. details of its talc m mining a been don literature A. Q. you set o	No. You have not studied where you can be an expert on Johnson's Baby Powder, where it's mined from, how it's d, how it's tested, things like that? No, only what I've read in the standard the standard the standard the standard from, what the processes are for and processing the talc, what tests have the for asbestos? Have you read that in the standard to the methodology that but in your report, have you ever taught
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? A. Correct. Well, my daughter. (Laugh). Q. You have told your daughter not to use talc? A. Yes. Q. When did you tell her that? A. I don't know. Growing up, when I've been doing this work for a long time. Q. Other than your daughter, have you ever told a woman not to use talc? A. No. Q. Have you ever recommended to any physician that they tell their patients not to use	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Q. say you'r that is, w processed A. literature Q. details of its talc m mining a been don literature A. Q. you set of that methods.	No. You have not studied where you can be an expert on Johnson's Baby Powder, where it's mined from, how it's d, how it's tested, things like that? No, only what I've read in the state of where Johnson & Johnson has has had ained from, what the processes are for and processing the talc, what tests have be for asbestos? Have you read that in the state of think so. With regard to the methodology that but in your report, have you ever taught modology to any students?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? A. Correct. Well, my daughter. (Laugh). Q. You have told your daughter not to use talc? A. Yes. Q. When did you tell her that? A. I don't know. Growing up, when I've been doing this work for a long time. Q. Other than your daughter, have you ever told a woman not to use talc? A. No. Q. Have you ever recommended to any physician that they tell their patients not to use talcum powder	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. Q. say you'r that is, w processed A. literature Q. details of its talc m mining a been don literature A. Q. you set o that meth A.	No. You have not studied where you can be an expert on Johnson's Baby Powder, where it's mined from, how it's d, how it's tested, things like that? No, only what I've read in the standard the standard from, what the processes are for and processing the talc, what tests have be for asbestos? Have you read that in the standard from, what the methodology that but in your report, have you ever taught modology to any students? Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? A. Correct. Well, my daughter. (Laugh). Q. You have told your daughter not to use talc? A. Yes. Q. When did you tell her that? A. I don't know. Growing up, when I've been doing this work for a long time. Q. Other than your daughter, have you ever told a woman not to use talc? A. No. Q. Have you ever recommended to any physician that they tell their patients not to use talcum powder A. No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Q. say you'r that is, w processed A. literature Q. details of its talc m mining a been don literature A. Q. you set of that meth A. Q.	No. You have not studied where you can be an expert on Johnson's Baby Powder, where it's mined from, how it's d, how it's tested, things like that? No, only what I've read in the standard the standard from, what the processes are for a processing the talc, what tests have the for asbestos? Have you read that in the standard from, what the processes are for a for a sbestos? Have you read that in the standard from the standa
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? A. Correct. Well, my daughter. (Laugh). Q. You have told your daughter not to use talc? A. Yes. Q. When did you tell her that? A. I don't know. Growing up, when I've been doing this work for a long time. Q. Other than your daughter, have you ever told a woman not to use talc? A. No. Q. Have you ever recommended to any physician that they tell their patients not to use talcum powder A. No. Q in the genital area?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Q. say you'r that is, w processed A. literature Q. details of its talc m mining a been don literature A. Q. you set o that meth A. Q. methodo	No. You have not studied where you can be an expert on Johnson's Baby Powder, where it's mined from, how it's d, how it's tested, things like that? No, only what I've read in the standard the standard from, what the processes are for and processing the talc, what tests have be for asbestos? Have you read that in the standard from, what the methodology that but in your report, have you ever taught modology to any students? Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? A. Correct. Well, my daughter. (Laugh). Q. You have told your daughter not to use talc? A. Yes. Q. When did you tell her that? A. I don't know. Growing up, when I've been doing this work for a long time. Q. Other than your daughter, have you ever told a woman not to use talc? A. No. Q. Have you ever recommended to any physician that they tell their patients not to use talcum powder A. No. Q in the genital area? A. No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Q. say you'r that is, w processed A. literature Q. details of its talc m mining a been don literature A. Q. you set of that method A. Q. methodo it?	No. You have not studied where you can re an expert on Johnson's Baby Powder, where it's mined from, how it's d, how it's tested, things like that? No, only what I've read in the st. Have you read in the literature the f where Johnson & Johnson has has had ained from, what the processes are for and processing the talc, what tests have see for asbestos? Have you read that in the st. I don't think so. With regard to the methodology that but in your report, have you ever taught modology to any students? Yes. In what class have you taught that logy and when was the last time you taught
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. And you've never told a patient that her talc use caused her ovarian cancer, correct? A. I am not a clinician. Q. You've never told a woman not to use talc, correct? A. Correct. Well, my daughter. (Laugh). Q. You have told your daughter not to use talc? A. Yes. Q. When did you tell her that? A. I don't know. Growing up, when I've been doing this work for a long time. Q. Other than your daughter, have you ever told a woman not to use talc? A. No. Q. Have you ever recommended to any physician that they tell their patients not to use talcum powder A. No. Q in the genital area? A. No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Q. say you'r that is, w processed A. literature Q. details of its talc m mining a been don literature A. Q. you set of that meth A. Q. methodo it? A.	No. You have not studied where you can be an expert on Johnson's Baby Powder, where it's mined from, how it's d, how it's tested, things like that? No, only what I've read in the standard the standard from, what the processes are for a processing the talc, what tests have the for asbestos? Have you read that in the standard from, what the processes are for a for a sbestos? Have you read that in the standard from the standa

Page 310 Page 312 1 O. And in that course on "Guided 1 Q. We've talked a little bit about 2 Epidemiology Research," did you go through the 2 statistical significance. 3 methodology you describe in your report? You agree that statistical Yes. The students come up, develop 4 significance using a p-value of .05 is an 5 a research question, analyze data for a particular 5 important evaluation in an epidemiologic study? 6 hypothesis, analyze the data, and then interpret No, I do not agree with that. 7 the findings. And during the interpretation of 7 It is an arbitrary dichotomous cut 8 the findings, they go through the process of 8 point that merely represents that the risk 9 determining whether or not they believe the 9 estimate 95 percent of the time will fall between 10 findings to be true or spurious based on the same 10 a lower confidence bound and an upper confidence 11 criteria that I used in determining the -- the 11 bound. And if that lower confidence bound is 0.99 12 scientific integrity of the talc and ovarian 12 and the upper confidence bound is 1.45, then to 13 cancer association. 13 deem it not statistically significant is 14 What level of student did you teach Q. 14 inappropriate. 15 that to? 15 Q. Is a p-value of .05 still the 16 A. These are master's level students. 16 standard for determining whether a study shows an 17 Q. Outside of your presentation to FDA 17 association between an exposure and a disease? 18 at the workshop back in 1994, have you ever 18 It is a tool that is used, but not 19 lectured to your peers with regard to your 19 one that is relied upon for assessing causation. 20 opinions on talc and ovarian cancer? 20 Going back to my question, though. 21 I may have given a seminar on the 21 A. From your standpoint, is it still an 22 research because I have a body of research that I 22 industry standard for showing whether there's an 23 had done at that time, but certainly not recently. 23 association between an exposure and a disease? 24 Q. You say --24 MR. TISI: Objection to the Page 311 Page 313 1 term "industry standard." This is a And I can't think of any, and you 1 2 can look -- we can look in my CV and see if there 2 profession, not an industry, but go 3 3 are any invited presentations that were specific ahead. 4 THE WITNESS: The standard is 4 about ovarian cancer risk factors. If -- if 5 to be able to show the point estimate and 5 they're not in the CV, then I didn't do it. Sitting here today, outside of the 6 what the 95 percent confidence interval 7 7 presentation you gave at FDA, do you recall giving is. That is the standard in 8 epidemiologic research. Not to show a 8 that kind of presentation or a similar 9 point estimate and then to indicate that 9 presentation on talc and ovarian cancer to any 10 10 other group or set of your peers or colleagues? it happens to be greater than or less 11 I -- unless it's in my CV, I have 11 than P 0.05. 12 BY MR. HEGARTY: 12 not, and anything -- and I would not have done 13 that in a -- in a nonscientific setting. 13 In looking at relative risk, one is 14 With regard to the methodology you 14 considered the null value, indicating no 15 association, correct? 15 applied in this case, is there any ability to test 16 A. 16 whether it is a reliable methodology for reaching Correct. 17 Q. If a study is not statistically 17 causation conclusions? 18 significant, it means the result could be due to 18 MR. TISI: Objection. 19 random chance, correct? 19 THE WITNESS: I don't think 20 MR. TISI: Objection. 20 there is a test. It is the way that we 21 THE WITNESS: I think I 21 in epidemiology teach and carry out our 22 research. It is the standard of 22 believe I stated before that any result, 23 23 practice. regardless of statistical significance, 24 could be due to chance or bias. 24 BY MR. HEGARTY:

	Page 214		Page 216
1	Page 314 BY MR. HEGARTY:	1	A. With the exposure, yes. The
2	Q. Going back to the null value of 1.		exposure of interest and the outcome, yes.
	If the confidence interval contains the value of	3	Q. In every study there exists the
	1, then the true finding, as I mentioned earlier,		potential for unknown confounders, correct?
	could be 1.0, correct?	5	A. Yes, possibly.
6	A. The true value could be anywhere	6	Q. When considering bias and
-	from the lowest confidence bound to the highest		confounders, the weaker the association, that is,
	confidence bound.		the closer it is to 1.0, the greater the concern
9	Q. Do you agree that there are		is that bias or confounding could be the reason
1	generally three categories of phenomena that could		for that association, correct?
	result in an association finding in a study to be	11	A. Yes, certainly greater I mean,
	erroneous: chance, bias, and confounding?	12	attention should be paid regardless of whether it
13	A. Well, confounding is bias. So		is an association of 1.3, 2.0, 3.0. We always use
14	chance is certainly one. Confounding is certainly		the same method to determine how reliable that
	one. But within the category of bias, there are a	15	estimate is based on potential sources of bias
1	number of different components that are there,	16	_
1	such as misclassification, selection bias, things	17	A and confounding.
	like that.	18	Q. Finding association does not mean
19	Q. Is there any way to account for	19	causation, correct?
20	chance in an epidemiologic study besides	20	A. That is correct.
21	statistical significance?	21	Q. A risk factor is not necessarily a
22	MR. TISI: In an individual	22	
23	study or in studies overall?	23	A. That is correct.
24	BY MR. HEGARTY:	24	Q. Going back to your methodology
	Page 315		Page 317
1	Q. Well, did you understand my	1	section in your report.
2	question?	2	A. Uh-huh.
3	A. Why don't	3	Q. What is the objective criteria that
4	MR. TISI: I need to	4	you apply for this methodology?
5	understand it. It needs to be clear. So	5	MR. TISI: Objection. Asked
6	is it	6	and answered a couple times.
7	BY MR. HEGARTY:	7	You may answer it again.
8	Q. Is there any way in an epidemiologic	8	BY MR. HEGARTY:
1	study to account for chance other than through	9	Q. Let me put let me ask a different
	statistical significance?	10	way because that may be unclear.
11	MR. TISI: Objection.	11	Isn't your methodology subjective
12	THE WITNESS: Accounting for	12	based on the person who's conducting it? And if
13	statistical significance is not a way	13	· •
14	to determine whether chance is the	14	MR. TISI: Objection. Asked
15	explanation for the finding.	15	and answered a couple times.
16	The way to determine whether	16	THE WITNESS: I wouldn't I
17	chance is the explanation for the finding	17	wouldn't say it's subjective.
18	is to look at other known factors that	18	I would say it's objective.
19	could be influencing the association.	19	There's no qualitative process. I mean,
1	BY MR. HEGARTY:	20	it's it's evaluation of quantitative
21	Q. Confounding is where there could be	21	data.
177	another association present within the study that	22	So looking at the strength of
1		~~	
23	confuses the relationship between the agent of interest and the outcome of interest, correct?	23 24	the association in terms of the the range in which the confidence interval,

	Page 318		Page 320
1	the estimate falls; looking at the extent	1	could have been present, and even those that may
2	possible whether there's an increasing		be unrecognized.
3	association with increasing levels of	3	Q. You told me that you applied this
4	exposure, whether there's biological		methodology in your studies on talc and ovarian
5	plausibility and potential for explaining		cancer?
6	the association, whether there's a	6	A. Yes.
7	temporal issue, and whether there is	7	Q. Let me ask in a different way.
8	consistency across multiple studies is	8	Have you ever described the process
9	certainly a standard that we do, in		of this methodology, without regard to the
10	conjunction with trying to explain other	10	exposure and the disease you're looking at, in an
11	non-causal explanations for all of those		written publication of yours?
12	findings.	12	A. No.
13	So I believe that's that's	13	MR. TISI: Objection.
14	my response to your question.	14	THE WITNESS: No, I haven't,
	BY MR. HEGARTY:	15	but it is a standard of practice that's
16	Q. Turn over to page 5 of your report.	16	indicated in epidemiology methods
17	A. Yes.	17	textbooks in the approach.
18	Q. At the very top.	18	It is the foundation of
19	A. Yes.	19	epidemiologic research.
20	Q. You write that:		BY MR. HEGARTY:
21	~	20 21	
	"The point is that epidemiologists		Q. Is this methodology, as you can recall, described in Dr. Rothman's textbook?
	make their inferences by pitting alternative		•
	explanations against one another. This approach		A. Yes. Certainly all these components
24	amounts to pitting non-causal theories against a	24	related to the biases.
1	Page 319	1	Q. Please turn over to paragraph 20
	causal theory. Epidemiologists ask, 'Is there some systematic error in the data from a study?	_	I'm sorry to page 20 of your report.
1		3	A. Yes.
1	Then let's control that problem to see what	4	
1	association if any remains between exposure and		•
	disease."		this case?
6	Did I read that correctly?		
7	A. You did.	7	A. Uh-huh.
8	Q. So is it so are you saying there	8	Q. Yes?
1	that there is an association that an	9	A. Yes.
	association is causal unless it can be explained	10	Q. We talked about this a little bit
	by some systematic error?	11	earlier, but at the top of page 20 you say that
12	A. It may very well be causal if after	12	"Considering the preponderance of the evidence
1	all well, it may be assumed to be causal after		including" and then you cite prepared at B
	explaining all of the potential explanations for	14	A. I'm sorry. Where is this? The
	the association, and that includes systematic		sentence?
	error in the data.	16	Q. Yeah. Very top.
17	Q. Is that how you reached your	17	A. Oh, "Considering." Yes, yes, yes.
	opinions in this case, by controlling or		Yes.
19	accounting for systematic error?	19	Q. "Including" and then going to
20	A. We we didn't quantitatively do	20	paragraph B.
	that. We looked to see if it had been done in the	21	"After controlling for known risk
1	studies and made our assessments based on issues		and protective factors for ovarian cancer,
23	related to to misclassification of the exposure		evidence of a trend of increasing risk of ovarian
	and confounding and other sources of bias that	24	cancer with increasing talc applications,

1 especially when the vaginal tract is open to the 2 ovaries." 2 looked at all the cohort studies together, they 3 You see where I'm reading? 4 A. Yes, I do. 2 looked at all the cohort studies together, they 3 recognized that the association was, in their of you specifically refer to in your report is from 6 the meta-randy. There's my 1992 study. 1		Page 322		Page 324
2 ovaries." 3 You see where I'm reading? 4 A. Yes, I do. 5 Q. And that evidence of a trend that 6 you specifically refer to in your report is from 7 the Cramer 2016 study, correct? 8 MR. TISI: Objection. 9 THE WITNESS: Close. It's 10 from multiple studies. There is the 11 Cramer study. There's my 1992 study. 12 There's Schildkraut study. There's a 13 number of studies that have shown this. 14 BY MR. HEGARTY: 15 Q. And you mentioned Schildkraut. Let 16 me clarify my question. 17 A. Yeah. 18 Q. The only two studies you actually 19 specifically refer to in your report as shown as 20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 22 A. That's what's listed in the report. 23 Although in the description of the meta-analyses, 2 1 response. But those are not new data, and this is 2 new data. The other ones are meta-analyses, 2 3 Q. Please turn over to the Executive 4 Summary section of your report, which is on 5 page 6. 6 A. Uh-huh. 7 Q. Second paragraph, the middle of that 8 paragraph you make the sentence—you make the 9 statement: 10 "We note that there is also an 11 association between tale use and ovarian cancer in 12 cohort studies and that's a compilation of 6 all three of the cohort studies are flawed in terms of 8 exposure assessment. 9 Q. If we look at the findings in the 10 cohort studies at to ovarian cancer and tale use 11 overall, none of those studies reported a 12 statistically significant association between tale 13 use ever never and ovarian cancer; 14 MR. TISI: Objection. 15 THE WITNESS: Well, that's 16 correct, but it's largely because the 17 associations that as we talked about in 18 our report are attenuated because of the 19 issue of misclassification. 20 Deal of misclassification. 21 of—of selection bias, such as in the 22 Sister Study where 160 or so women with 23 ovarian cancer were excluded from the 24 analyses because they already had ovarian cancer 25 of—of selection bias, such as in the 26 cancer, and they only followed up those 27 who hadn't alrea	1	-	1	-
3 recognized that the association was, in their 4 A. Yes, I do. 5 Q. And that evidence of a trend that 6 you specifically refer to in your report is from 7 the Cramer 2016 study, correct? 8 MR. TISI: Objection. 9 THE WITNESS: Close. It's 10 from multiple studies. There is the 11 Cramer study. There's my 1992 study. 12 There's Schildkraut study. There's a 13 number of studies that have shown this. 14 BY MR. HEGARTY: 15 Q. And you mentioned Schildkraut. Let 16 me clarify my question. 17 A. Yeah. 18 Q. The only two studies you actually 19 specifically refer to in your report as shown as 20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 22 A. That's what's listed in the report. 23 Although in the description of the meta-analyses, 24 there may have been some discussion of dose Page 323 1 response. But those are not new data, and this is 2 new data. The other ones are meta-analyses. 3 Q. Please turn over to the Executive 4 Summary section of your report, which is on 5 page 6. A. Uh-huh. C. Second paragraph, the middle of that 8 paragraph you make the sentence - you make the 9 statement: 10 "We note that there is also an 10 cohort studies are flawed in terms of all three of the cohort studies are flawed in terms of all three of the cohort studies are flawed in terms of all three of the cohort studies are flawed in terms of all three of the cohort studies are flawed in terms of all three of the cohort studies are flawed in terms of all three of the cohort studies are flawed in terms of all three of the cohort studies are flawed in terms of all three of the cohort studies are flawed in terms of all three of the cohort studies are flawed in terms of all three of the cohort studies are flawed in terms of all three of the cohort studies are flawed in terms of all three of the cohort studies are flawed in terms of all three of the cohort studies are flawed in terms of all three of the cohort studies are flawed in terms of all three of the cohort studies are over and ovarian cance	1		_	•
4 view, statistically significant in those with 5 Q. And that evidence of a trend that 6 you specifically refer to in your report is from 7 the Cramer 2016 study, correct? 8 MR. TISI: Objection. 9 THE WITNESS: Close. It's 10 from multiple studies. There is the 11 Cramer study. There's my 1992 study. 12 There's Schildkraut study. There's a 13 number of studies that have shown this. 14 BY MR. HEGARTY: 15 Q. And you mentioned Schildkraut. Let 16 me clarify my question. 17 A. Yeah. 18 Q. The only two studies you actually 19 specifically refer to in your report as shown as 20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 22 Although in the description of the meta-analyses, 23 Although in the description of the meta-analyses, 24 there may have been some discussion of dose Page 323 1 response. But those are not new data, and this is 2 new data. The other ones are meta-analyses, 3 Q. Please turn over to the Executive 4 Summary section of your report, which is on 5 page 6. A. Uh-huh. Q. Second paragraph, the middle of that 8 paragraph you make the sentence — you make the 9 statement: 10 "We note that there is also an 11 association between tale use and ovarian cancer in 12 cohort studies." 11 cancer, and they only followed up those who hadn't already had ovarian cancer who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't analyses because they already had ovarian the risk. 7 And the WHI, as I indicated, 8 had women who weren't enrolled in the study until after age 50. About half of ovarian cancers occur before the age of 10 Q. Can you cite for me any author in 17 any published literature who has said that the 18 cohort studies. 19 Use and ovarian cancer? 10 Q. My question, is very 21 specific. 22 My question is: Do the authors 23 state in their studies that they show an	1			
5 Q. And that evidence of a trend that 6 you specifically refer to in your report is from 7 the Cramer 2016 study, correct? 8 MR. TISI: Objection. 9 THE WITNESS: Close. It's 16 from multiple studies. There is the 11 Cramer study. There's my 1992 study. 12 There's Schildkraut study. There's a 13 number of studies stath have shown this. 14 BY MR. HEGARTY: 15 Q. And you mentioned Schildkraut. Let 16 me clarify my question. 16 me clarify my question. 17 A. Yeah. 18 Q. The only two studies you actually 19 specifically refer to in your report as shown as 20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 22 A. That's what's listed in the report. 23 Although in the description of the meta-analyses, 24 there may have been some discussion of dose 24 there may have been some discussion of dose 25 new data. The other ones are meta-analyses. 3 Q. Please turn over to the Executive 3 and, therefore, you have a depletion of 4 susceptibles in that and so you wouldn't 5 page 6. 6 A. Uh-huh. 7 Q. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 10 mWe note that there is also an 11 association between talc use and ovarian cancer? 11 50. 17 Septofic. 12 So, so I'm not surprised that 12 Septofic. 13 My question, though, is very 21 specific. 22 My question is: Do the authors 23 state in their studies that they show an 25 state in their studies that they show an 25 state in their studies that they show an 25 state in their studies that they show an 25 state in their studies that they show an 25 state in their studies that they show an 25 state in their studies that they show an 25 state in their studies that they show an 25 state in their studies that they show an 25 state in their studies that they show an 25 page 5. 17 A. Objection. That that fixed in the report. 25 page 7. 28 A. The other ones are meta-analyses. 26 page 7. 29 Q. My question, though, is very 21 specific. 27 page 7. 20 Q. My question is: Do the authors 22 with serous tum				-
6 you specifically refer to in your report is from 7 the Cramer 2016 study, correct? 8 MR. TISI: Objection. 9 THE WITNESS: Close. It's 10 cramer study. There's my 1992 study. 12 There's Schildkraut study. There's a 11 overall, none of those studies are flawed in terms of 8 exposure assessment. 13 number of studies that have shown this. 13 use ever never and ovarian cancer, correct? 14 BY MR. HEGARTY: 15 Q. And you mentioned Schildkraut. Let 16 me clarify my question. 17 A. Yeah. 18 Q. The only two studies you actually 19 specifically refer to in your report as shown as 20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 22 A. That's what's listed in the report. 23 Although in the description of the meta-analyses. 24 there may have been some discussion of dose 1 response. But those are not new data, and this is 2 new data. The other ones are meta-analyses. 2 new data. The other ones are meta-analyses. 2 new data. The other ones are meta-analyses. 2 who hadn't already had ovarian cancer and talc use and ovarian cancer. You make the 9 statement: 9 cancer, and they only followed up those who hadn't already bad ovarian cancer and talc use and ovarian cancer in the istudies. You make the sentence — you make the 9 statement: 9 cancer, and they only followed up those who hadn't already be underestimating the risk. 7 And the WHI, as I indicated, had women who weren't enrolled in the study until after age 50. About half of ovarian cancers occur before the age of 11 association between tale use and ovarian cancer in 17 between tale use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 20 Q. My question is. Do the authors 22 with serous tumors had an association between tale use and ovarian cancer? 21 specific. 22 was statistically significant as to ovarian cancer and talc use 2 toorts studies at to ovarian cancer and ovarian cancer. Torrect? 14 mR. TISI: Objection. 15 toorts tudies at to ovarian cancer, correct? 21 overally where lod or so women with ovarian can		·		
7 the Cramer 2016 study, correct? 8 MR. TISI: Objection. 9 THE WITNESS: Close. It's 10 from multiple studies. There is the 11 Cramer study. There's my 1992 study. 12 There's Schildkraut study. There's a 13 number of studies that have shown this. 14 BY MR. HEGARTY: 15 Q. And you mentioned Schildkraut. Let 16 me clarify my question. 17 A. Yeah. 18 Q. The only two studies you actually 19 specifically refer to in your report as shown as 20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 22 A. That's what's listed in the report. 23 Although in the description of the meta-analyses, 24 there may have been some discussion of dose 24 there may have been some discussion of dose 25 a. Q. Please turn over to the Executive 26 Summary section of your report, which is on 27 page 6. 28 A. Uh-huh. 29 G. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 20 Q. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 21 G. Do any of the cohort studies are flawed in terms of 8 exposure assessment. 22 M. What the cohort studies as to ovarian cancer and talc use 10 cohort studies as to ovarian cancer and talc use 11 corbent studies as to ovarian cancer and talc use 11 corbent studies as to ovarian cancer and talc use and ovarian cancer and talc use and ovarian cancer? 14 MR. TISI: Objection. 15 Correct, but it's largely because the associations that as we talked about in 18 our report are attenuated because of the isasociation sthat as we talked about in 19 our association sthat as we talked about in 19 our association sthat as we talked about in 19 our association strate as the talked about in 19 our association strate as the talked about in 19 our association strate as the talked about in 19 our association strate as the talked about in 19 our association strate as the talked about in 19 our association strate as the talked about in 19 our association strate as we talked about in 19 our association		~		
8 MR, TISI: Objection. 9 THE WITNESS: Close. It's 10 from multiple studies. There is the 11 Cramer study. There's my 1992 study. 12 There's Schildkraut study. There's a 13 number of studies that have shown this. 14 BYMR, HEGARTY: 15 Q. And you mentioned Schildkraut. Let 16 me clarify my question. 17 A. Yeah. 18 Q. The only two studies you actually 19 specifically refer to in your report as shown as 20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 22 A. That's what's listed in the report. 23 Although in the description of the meta-analyses, 24 there may have been some discussion of dose 24 summary section of your report, which is on 3 Q. Please turn over to the Executive 4 Summary section of your report, which is on 5 page 6. 6 A. Uh-huh. 7 Q. Second paragraph, the middle of that 8 paragraph you make the sentence — you make the 9 tatement: 10 "We note that there is also an 11 association between tale use and ovarian cancer in 12 cohort studies." 13 Do you see where I'm reading? 14 A. I do. 15 Q. Do any of the cohort studies 16 themselves say that there is an association 17 between tale use and ovarian cancer? 20 Q. My question, though, is very 21 Specific. 22 My question is: Do the authors 23 state in their studies that they show an		· · ·		_
9 THE WITNESS: Close. It's 10 cohort studies as to ovarian cancer and tale use 11 corrent study. There's my 1992 study. 12 There's Schildkraut study. There's a 13 number of studies that have shown this. 13 use ever never and ovarian cancer, correct? 14 BY MR. HEGARTY: 14 MR. TISI: Objection. 15 Q. And you mentioned Schildkraut. Let 16 me clarify my question. 17 A. Yeah. 18 Q. The only two studies you actually 19 specifically refer to in your report as shown as 20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 22 A. That's what's listed in the report. 23 Although in the description of the meta-analyses, 24 there may have been some discussion of dose 27 new data. The other ones are meta-analyses. 2 new data. The other ones are meta-analyses. 3 Q. Please turn over to the Executive 24 Summary section of your report, which is on 5 page 6. 4 A. Uh-huh. 7 Q. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 10 "We note that there is also an 11 association between talc use and ovarian cancer in 12 cohort studies." 12 So, so I'm not surprised that the 9 study until after age 50. About half of 10 ovarian cancers occur before the age of 11 association between talc use and ovarian cancer in 12 So. O, so I'm not surprised that the 20 Q. My question is: Do the authors 23 state in their studies that they show an 29 Q. Why question is: Do the authors 23 state in their studies that they show an 29 Q. There's a 11 overall, none of those studies as to ovarian cancer and talc use as to a tradical association between talc use and ovarian cancer in 10 ovarian cancer were exert and ovarian cancer and talc use and ovarian cancer in 10 ovarian cancer back as talked about in 10 ovarian cancer soccur before the age of 11 association between talc use and ovarian cancer in 12 So. So, so I'm not surprised that the 2 cohort studies. 19 WR. HEGARTY: 19 use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those th	1			
10 chort studies as to ovarian cancer and talc use 11 Cramer study. There's my 1992 study. 12 There's Schildkraut study. There's a 13 number of studies that have shown this. 14 BY MR. HEGARTY: 15 Q. And you mentioned Schildkraut. Let 16 me clarify my question. 17 A. Yeah. 18 Q. The only two studies you actually 19 specifically refer to in your report as shown as 20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 22 A. That's what's listed in the report. 23 Although in the description of the meta-analyses, 24 there may have been some discussion of dose 24 there may have been some discussion of dose 25 new data. The other ones are meta-analyses. 26 Q. Please turn over to the Executive 27 A. Uh-huh. 28 Second paragraph, the middle of that a paragraph you make the sentence — you make the 29 statement: 20 Q. Second paragraph, the middle of that a paragraph you make the sentence — you make the 29 statement: 30 Do you see where I'm reading? 41 A. I do. 42 Cohort studies. 51 There's Schildkraut cancer' 52 Although in the description of the meta-analyses, 24 who hadn't already had ovarian cancer with ovarian cancer were excluded from the 24 summary section of your report, which is on 25 page 6. 6 A. Uh-huh. 7 Q. Second paragraph, the middle of that a paragraph you make the sentence — you make the 9 statement: 9 study will alfer age 50. About half of 10 "We note that there is also an 11 association between tale use and ovarian cancer in 12 cohort studies. 13 Do you see where I'm reading? 14 A. I do. 15 C. Oa nyou cite for me any author in 17 between tale use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 20 Q. My question, though, is very 21 specific. 22 Why servicious may a statistically significant, I believe. Yeah.			8	•
There's Schildkraut study. There's a number of studies that have shown this. In umber of studies in the report. In the clarify my question. In the clarify my question in the clarify my question. In the clarify my question of the meta-analyses. In the clarify my question of the meta-analyses. In the clarify my question in the middle of that the man and this is a cancer, and they only followed up those who hadn't already had ovarian cancer and they only followed up those who hadn't already had ovarian cancer and they only followed up those who hadn't already had ovarian cancer and the man analyses because they already had ovarian cancer and they only followed up those who hadn't already had ovarian cancer and they only followed up those who hadn't already had ovarian cancer and they only followed up those who hadn't already had ovarian cancer and they only followed up those who hadn't already had ovarian cancer and they only followed up those who hadn't already had ovarian cancer and they only followed up those w	9	THE WITNESS: Close. It's	9	Q. If we look at the findings in the
12 There's Schildkraut study. There's a number of studies that have shown this. 13 use ever never and ovarian cancer, correct? 14 BY MR. HEGARTY: 15 Q. And you mentioned Schildkraut. Let 16 me clarify my question. 16 me clarify my question. 17 A. Yeah. 17 A. Yeah. 18 Q. The only two studies you actually 19 specifically refer to in your report as shown as 20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 22 A. That's what's listed in the report. 23 Although in the description of the meta-analyses, 24 there may have been some discussion of dose 24 there may have been some discussion of dose 25 new data. The other ones are meta-analyses. 26 new data. The other ones are meta-analyses. 27 new data. The other ones are meta-analyses. 28 new data. The other ones are meta-analyses. 29 new data. The other ones are meta-analyses. 20 Please turn over to the Executive 3 nad, therefore, you have a depletion of 4 susceptibles in that and so you wouldn't 5 page 6. 5you would already be underestimating the risk. 19 you make the statement: 9 statement: 9 study until after age 50. About half of ovarian cancers occur before the age of 11 sosociation between talc use and ovarian cancer? 12 Cohort studies. 19 the Nurses' Health Study shows 19 it. 19 Q. My question is: Do the authors 20 And particularly the issue of misclassification. 21 of of selection bias, such as in the 5ister Study where 160 or so women with ovarian cancer were excluded from the analyses because they already had ovarian cancer were excluded from the analyses because they already had ovarian cancer were excluded from the analyses because they already had ovarian cancer were excluded from the analyses because they already had ovarian cancer were excluded from t	10	from multiple studies. There is the	10	cohort studies as to ovarian cancer and talc use
13 number of studies that have shown this. 14 BY MR. HEGARTY: 15 Q. And you mentioned Schildkraut. Let 16 me clarify my question. 17 A. Yeah. 18 Q. The only two studies you actually 18 specifically refer to in your report as shown as 20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 22 A. That's what's listed in the report. 23 Although in the description of the meta-analyses. 24 there may have been some discussion of dose 25 new data. The other ones are meta-analyses. 26 new data. The other ones are meta-analyses. 27 new data. The other ones are meta-analyses. 28 new data. The other ones are meta-analyses. 29 new data. The other ones are meta-analyses. 21 cancer, and they only followed up those and, therefore, you have a depletion of susceptibles in that and so you wouldn't report as shown as in the sister who hadn't already had ovarian cancer who had	11	Cramer study. There's my 1992 study.	11	overall, none of those studies reported a
14 BY MR. HEGARTY: 15 Q. And you mentioned Schildkraut. Let 16 me clarify my question. 17 A. Yeah. 18 Q. The only two studies you actually 19 specifically refer to in your report as shown as 20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 22 A. That's what's listed in the report. 23 Although in the description of the meta-analyses, 24 there may have been some discussion of dose 24 there may have been some discussion of dose 25 new data. The other ones are meta-analyses, 26 new data. The other ones are meta-analyses, 27 new data. The other ones are meta-analyses, 28 new data. The other ones are meta-analyses, 29 new data. The other ones are meta-analyses, 30 Q. Please turn over to the Executive 41 Summary section of your report, which is on 42 Summary section of your report, which is on 43 Suragraph you make the sentence you make the 44 Statement: 45 Saragraph you make the sentence you make the 45 statement: 46 A. Uh-huh. 47 Q. Second paragraph, the middle of that 48 paragraph you make the sentence you make the 49 statement: 40 Surban your see where I'm reading? 41 A. I do. 42 So, Do any of the cohort studies 43 Do you see where I'm reading? 44 A. I do. 45 Q. Do any of the cohort studies 46 A. Yes, the Nurses' Health Study shows 47 It was an association between talc use and ovarian cancer? 48 A. Yes, the Nurses' Health Study shows 49 it. 40 Q. My question, though, is very 40 With serous tumors had an association between talc 41 where they did say for those those with a 42 with serous tumors had an association they thought 42 was statistically significant, I believe. Yeah.	12	There's Schildkraut study. There's a	12	statistically significant association between talc
15 Q. And you mentioned Schildkraut. Let 16 me clarify my question. 16 me clarify my question. 17 A. Yeah. 18 Q. The only two studies you actually 18 our report are attenuated because of the 19 specifically refer to in your report as shown as 20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 21 Cramer and Schildkraut studies, correct? 22 A. That's what's listed in the report. 23 Although in the description of the meta-analyses, 23 ovarian cancer were excluded from the 24 there may have been some discussion of dose 24 there may have been some discussion of dose 25 new data. The other ones are meta-analyses. 20 and, therefore, you have a depletion of 24 Summary section of your report, which is on 25 page 6. 24 Summary section of your report, which is on 35 page 6. 25 A. Uh-huh. 66 the risk. 36 A. Uh-huh. 66 the risk. 37 And the WHI, as I indicated, 38 paragraph you make the sentence you make the 38 statement: 49 statement: 49 statement: 49 statement: 40 ovarian cancer or 31 ovarian cancer or 32 ovarian cancer or 34 ovarian cancer or 35 ovarian cancers occur before the age of 36 A. I do. 36 ovarian cancer in 37 ovarian cancer occur before the age of 38 ovarian cancer occur before the age of 39 ovarian cancers occur before the age of 30 ovarian cancers occur before the age of 31 cancer, 31 ovarian cancers occur before the age of 32 ovarian cancer occur before the age of 32 ovarian c	13	number of studies that have shown this.	13	use ever never and ovarian cancer, correct?
15 Q. And you mentioned Schildkraut. Let 16 me clarify my question. 16 me clarify my question. 17 A. Yeah. 18 Q. The only two studies you actually 18 our report are attenuated because of the specifically refer to in your report as shown as 20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 22 A. That's what's listed in the report. 22 Sister Study where 160 or so women with 23 Although in the description of the meta-analyses, 24 there may have been some discussion of dose 24 there may have been some discussion of dose 24 there may have been some discussion of dose 25 in response. But those are not new data, and this is 20 new data. The other ones are meta-analyses, 21 enew data. The other ones are meta-analyses, 22 who hadn't already had ovarian cancer 23 Q. Please turn over to the Executive 34 summary section of your report, which is on 35 page 6. 4 Uh-huh. 6 the risk. 6 A. Uh-huh. 6 the risk. 7 Q. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 9 statement: 9 statement: 9 statement: 9 statement: 10 "We note that there is also an 10 ovarian cancer or curbefore the age of 11 association between talc use and ovarian cancer in 11 boy ous see where I'm reading? 11 association between talc use and ovarian cancer in 17 between talc use and ovarian cancer in 18 A. Yes, the Nurses' Health Study shows 18 cohort studies. 18 PM R. HEGARTY: 19 use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 state in their studies that they show an 23 was statistically significant, I believe. Yeah.	14	BY MR. HEGARTY:	14	MR. TISI: Objection.
16 me clarify my question. 17 A. Yeah. 18 Q. The only two studies you actually 18 pecifically refer to in your report as shown as 20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 22 A. That's what's listed in the report. 23 Although in the description of the meta-analyses, 24 there may have been some discussion of dose 24 there may have been some discussion of dose 24 there may have been some discussion of dose 25 mediata. The other ones are meta-analyses. 26 mediata. The other ones are meta-analyses. 27 mediatary section of your report, which is on 28 page 6. 29 Please turn over to the Executive 49 statement: 40 statement	15	Q. And you mentioned Schildkraut. Let	15	-
17 A. Yeah. Q. The only two studies you actually 18 pecifically refer to in your report as shown as 20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 22 A. That's what's listed in the report. 23 Although in the description of the meta-analyses, 24 there may have been some discussion of dose 24 there may have been some discussion of dose 24 manalyses because they already had ovarian cancer were excluded from the 27 analyses 28 new data. The other ones are meta-analyses, 29 new data. The other ones are meta-analyses, 20 and, therefore, you have a depletion of 3 and, therefore, you have a depletion of 3 susceptibles in that and so you wouldn't 5 page 6. A. Uh-huh. Q. Second paragraph, the middle of that paragraph you make the sentence you make the statement: Q. Second paragraph, the middle of that paragraph you make the sentence you make the statement: Q. Do any of the cohort studies: Q. Do any of the cohort studies 10 Q. My question, though, is very 21 Sister Study where 160 or so women with ovarian cancer were excluded from the analyses because they already had ovarian cancer were paragraph analyses because they already had ovarian cancer and they only followed up those who hadn't already had ovarian cancer 11 cancer, and they only followed up those who hadn't already had ovarian cancer 12 cancer, and they only followed up those who hadn't already had ovarian cancer 13 and, therefore, you have a depletion of the risk. 7 And the WHI, as I indicated, had women who weren't enrolled in the study until after age 50. About half of ovarian cancers occur before the age of ovarian cancers occur before the age of the risk. 15 Do you see where I'm reading? 16 themselves say that there is an association 17 between tale use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 20 Q. My question, though, is very 21 specific. My question is: Do the authors 22 with serous tumors had an association they thought the cohort studies that they show	16	· ·	16	correct, but it's largely because the
19 specifically refer to in your report as shown as 20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 21 of of selection bias, such as in the 22 A. That's what's listed in the report. 22 Sister Study where 160 or so women with 23 Although in the description of the meta-analyses. 23 ovarian cancer were excluded from the 24 there may have been some discussion of dose 24 there may have been some discussion of dose 25 response. But those are not new data, and this is 2 new data. The other ones are meta-analyses. 29 who hadn't already had ovarian cancer 3 Q. Please turn over to the Executive 3 and, therefore, you have a depletion of 4 Summary section of your report, which is on 4 susceptibles in that and so you wouldn't 5 page 6. 5 you would already be underestimating 6 A. Uh-huh. 6 the risk. 7 Q. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 9 study until after age 50. About half of 10 "We note that there is also an 10 ovarian cancers occur before the age of 11 association between talc use and ovarian cancer in 11 50. 12 Cohort studies." 12 So, so I'm not surprised that 13 Do you see where I'm reading? 13 the associations are attenuated in the 14 cohort studies. 15 BY MR. HEGARTY: 16 themselves say that there is an association 16 Q. Can you cite for me any author in 17 any published literature who has said that the 19 it. 19 use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 state in their studies that they show an 20 surprised that they show 3 tate in their studies that they show an 29 was statistically significant, I believe. Yeah.		• • •	17	
19 specifically refer to in your report as shown as 20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 22 A. That's what's listed in the report. 22 Although in the description of the meta-analyses. 23 Although in the description of the meta-analyses. 24 there may have been some discussion of dose 24 there may have been some discussion of dose 25 response. But those are not new data, and this is 2 new data. The other ones are meta-analyses. 3 Q. Please turn over to the Executive 4 Summary section of your report, which is on 5 page 6. 5 you would already be underestimating 6 A. Uh-huh. 6 the risk. 7 Q. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 9 study until after age 50. About half of 10 ovarian cancers occur before the age of 11 association between talc use and ovarian cancer in 11 50. The option of the meta-analyses 25 only on you see where I'm reading? 13 the associations are attenuated in the cohort studies. 15 BY MR. HEGARTY: 16 themselves say that there is an association 16 the meta-analyses. 25 who hadn't already had ovarian cancer of 17 any published literature who has said that the 18 cohort studies showed an association between talc use and ovarian cancer in 17 any published literature who has said that the 18 cohort studies showed an association between talc use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 state in their studies that they show an 29 was a statistically significant, I believe. Yeah.	18	Q. The only two studies you actually	18	our report are attenuated because of the
20 being a preponderance of the evidence are the 21 Cramer and Schildkraut studies, correct? 22 A. That's what's listed in the report. 23 Although in the description of the meta-analyses. 24 there may have been some discussion of dose 25 Page 323 1 response. But those are not new data, and this is 2 new data. The other ones are meta-analyses. 3 Q. Please turn over to the Executive 4 Summary section of your report, which is on 5 page 6. 4 Summary section of your report, which is on 5 page 6. 5 Q. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 9 statement: 9 statement: 9 statement: 9 statement: 10 ovarian cancers occur before the age of 11 association between talc use and ovarian cancer in 12 cohort studies." 12 So, so I'm not surprised that 13 Do you see where I'm reading? 13 the associations are attenuated in the cohort studies. 15 BY MR. HEGARTY: 16 Q. Can you cite for me any author in 17 between talc use and ovarian cancer? 17 any published literature who has said that the cohort studies showed an association between talc use and ovarian cancer? 17 why question, though, is very 20 My question, though, is very 21 My question is: Do the authors 22 with serous tumors had an association they thought 23 state in their studies that they show an 20 My question, though attention of of selection bias, such as in the cofic of of selection bias, such as in the cofice of of selection bias, such as in the cofice of of selection bias, such as in the covarian cancer wore excluded from the 24 analyses because they already had ovarian cancer warian cancer analyses because they already had ovarian cancer 2 analyses because they already had ovarian cancer 2 analyses because they already had ovarian cancer 3 analyses because they already had ovarian cancer 4 susceptibles in that and so you wouldn't 5 you would already be underestimating the risk. 7 And the WHI, as I indicated, had women who weren't enrolled in the study until after age 50. About half of ovaria	19			_
21 Cramer and Schildkraut studies, correct? 22 A. That's what's listed in the report. 23 Although in the description of the meta-analyses, 23 d1though in the description of the meta-analyses, 24 there may have been some discussion of dose 24 there may have been some discussion of dose 25 response. But those are not new data, and this is 2 new data. The other ones are meta-analyses. 26 a new data. The other ones are meta-analyses. 27 a new data. The other ones are meta-analyses. 28 a Q. Please turn over to the Executive 3 and, therefore, you have a depletion of 4 Summary section of your report, which is on 4 susceptibles in that and so you wouldn't 5 page 6. 29 a A. Uh-huh. 6 the risk. 20 a Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 9 study until after age 50. About half of 10 woraian cancers occur before the age of 11 association between talc use and ovarian cancer in 12 cohort studies." 12 So, so I'm not surprised that 13 Do you see where I'm reading? 13 the associations are attenuated in the 14 cohort studies. 15 BY MR. HEGARTY: 16 themselves say that there is an association 16 Q. Can you cite for me any author in 17 between talc use and ovarian cancer? 17 any published literature who has said that the 19 use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 state in their studies that they show an 21 were they did say for those those with a 22 with serous tumors had an association they thought 23 state in their studies that they show an 21 was statistically significant, I believe. Yeah.		- · · · · · · · · · · · · · · · · · · ·	20	And particularly the issue
A. That's what's listed in the report. Although in the description of the meta-analyses, 23 Although in the description of the meta-analyses, 24 there may have been some discussion of dose Page 323 1 response. But those are not new data, and this is 2 new data. The other ones are meta-analyses. 3 Q. Please turn over to the Executive 3 and, therefore, you have a depletion of 4 Summary section of your report, which is on 4 susceptibles in that and so you wouldn't 5 page 6. 6 A. Uh-huh. 6 the risk. 7 Q. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 9 study until after age 50. About half of 10 ovarian cancer soccur before the age of 11 association between talc use and ovarian cancer in 11 50. 12 Cohort studies." 12 So, so I'm not surprised that 13 Do you see where I'm reading? 13 the associations are attenuated in the 14 cohort studies. 15 BY MR. HEGARTY: 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 the reference is a sociation they would altered by those with a 22 with serous tumors had an association they thought 23 state in their studies that they show an 22 with serous tumors had an association they thought 23 state in their studies that they show an 22 with serous tumors had an association they thought 23 was statistically significant, I believe. Yeah.		5 1		<u> </u>
23 Although in the description of the meta-analyses, 24 there may have been some discussion of dose 24 there may have been some discussion of dose 24 there may have been some discussion of dose 24 page 323 1 response. But those are not new data, and this is 2 new data. The other ones are meta-analyses. 2 who hadn't already had ovarian cancer 3 Q. Please turn over to the Executive 3 and, therefore, you have a depletion of 4 Summary section of your report, which is on 4 susceptibles in that and so you wouldn't 5 page 6. 5you would already be underestimating 6 the risk. 7 Q. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 9 study until after age 50. About half of 10 ovarian cancers occur before the age of 11 association between talc use and ovarian cancer in 11 2 cohort studies. 12 So, so I'm not surprised that 13 Do you see where I'm reading? 13 the associations are attenuated in the 14 A. I do. 15 Q. Do any of the cohort studies 15 BY MR. HEGARTY: 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 18 cohort studies showed an association between talc 19 it. 19 use and ovarian cancer? 20 Q. My question, though, is very 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 state in their studies that they show an 23 was statistically significant, I believe. Yeah.				
Page 323 1 response. But those are not new data, and this is 2 new data. The other ones are meta-analyses. 3 Q. Please turn over to the Executive 4 Summary section of your report, which is on 5 page 6. 6 A. Uh-huh. 7 Q. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 9 statement: 10 "We note that there is also an 11 association between talc use and ovarian cancer in 12 cohort studies." 13 Do you see where I'm reading? 14 A. I do. 15 Q. Do any of the cohort studies 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 20 Q. My question, though, is very 21 specific. 22 My question is: Do the authors 22 cancer, and they only followed up those 25 who hadn't already had ovarian cancer 26 and, therefore, you have a depletion of 27 and, therefore, you have a depletion of 28 who hadn't already had ovarian cancer 3 and, therefore, you have a depletion of 4 susceptibles in that and so you wouldn't 5 you would already be underestimating 4 the risk. 7 And the WHI, as I indicated, 8 had women who weren't enrolled in the 9 study until after age 50. About half of 10 ovarian cancers occur before the age of 11 association between talc use and ovarian cancer in 12 So, so I'm not surprised that 13 the associations are attenuated in the 14 cohort studies. 15 BY MR. HEGARTY: 16 Q. Can you cite for me any author in 17 any published literature who has said that the 18 cohort studies showed an association between talc 19 use and ovarian cancer? 20 Q. My question, though, is very 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 state in their studies that they show an	1	1		•
Page 323 1 response. But those are not new data, and this is 2 new data. The other ones are meta-analyses. 3 Q. Please turn over to the Executive 4 Summary section of your report, which is on 5 page 6. 6 A. Uh-huh. 7 Q. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 9 statement: 10 "We note that there is also an 11 association between talc use and ovarian cancer in 12 cohort studies." 12 So, so I'm not surprised that 13 Do you see where I'm reading? 14 A. I do. 15 Q. Do any of the cohort studies 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 20 Q. My question, though, is very 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 Why question is: Do the authors 23 was statistically significant, I believe. Yeah.		-		
1 response. But those are not new data, and this is 2 new data. The other ones are meta-analyses. 3 Q. Please turn over to the Executive 4 Summary section of your report, which is on 5 page 6. 6 A. Uh-huh. 7 Q. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 9 studement: 9 who hadn't already had ovarian cancer 3 and, therefore, you have a depletion of 4 susceptibles in that and so you wouldn't 5 you would already be underestimating 6 the risk. 7 And the WHI, as I indicated, 8 had women who weren't enrolled in the 9 study until after age 50. About half of 10 "We note that there is also an 11 association between talc use and ovarian cancer in 12 cohort studies." 12 So, so I'm not surprised that 13 Do you see where I'm reading? 14 A. I do. 15 Q. Do any of the cohort studies 15 BY MR. HEGARTY: 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 10 Q. My question, though, is very 20 Q. My question, though, is very 21 specific. 22 My question is: Do the authors 23 state in their studies that they show an 24 cancer, and they only followed up those 25 who hadn't already had ovarian cancer 3 and, therefore, you have a depletion of 4 susceptibles in that and so you wouldn't 5 you would already he underestimating 6 the risk. 7 And the WHI, as I indicated, had women who weren't enrolled in the 9 study until after age 50. About half of 10 ovarian cancers occur before the age of 11 association sure attenuated in the 12 cohort studies. 13 BY MR. HEGARTY: 14 cohort studies. 15 BY MR. HEGARTY: 15 Q. Can you cite for me any author in 17 any published literature who has said that the 18 cohort studies showed an association between talc 19 use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 state in their studies that they show an				
2 new data. The other ones are meta-analyses. 3 Q. Please turn over to the Executive 4 Summary section of your report, which is on 5 page 6. 6 A. Uh-huh. 7 Q. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 9 study until after age 50. About half of 10 "We note that there is also an 11 association between talc use and ovarian cancer in 12 cohort studies." 13 Do you see where I'm reading? 14 A. I do. 15 Q. Do any of the cohort studies 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 20 Q. My question, though, is very 20 A. Other than in the Gertig article 21 specific. 22 My question is: Do the authors 23 who hadn't already had ovarian cancer 3 and, therefore, you have a depletion of 4 susceptibles in that and so you wouldn't 5 and, therefore, you have a depletion of 4 susceptibles in that and so you wouldn't 5 you would already be underestimating 6 the risk. 7 And the WHI, as I indicated, 8 had women who weren't enrolled in the 10 ovarian cancers occur before the age of 11 association between tal rare at the and women who weren't enrolled in the 12 So, so I'm not surprised that 13 the associations are attenuated in the 14 cohort studies. 15 BY MR. HEGARTY: 16 Q. Can you cite for me any author in 17 any published literature who has said that the 18 cohort studies showed an association between talc 19 use and ovarian cancer? 20 Q. My question, though, is very 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 state in their studies that they show an	<u> </u>	•		
3 and, therefore, you have a depletion of 4 Summary section of your report, which is on 5 page 6. 6 A. Uh-huh. 7 Q. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 9 study until after age 50. About half of 10 "We note that there is also an 11 association between talc use and ovarian cancer in 12 cohort studies." 13 Do you see where I'm reading? 14 A. I do. 15 Q. Do any of the cohort studies 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 20 Q. My question, though, is very 20 A. Other than in the Gertig article 21 specific. 22 My question is: Do the authors 23 and, therefore, you have a depletion of 4 susceptibles in that and so you wouldn't 5 you would already be underestimating 6 the risk. 7 And the WHI, as I indicated, 8 had women who weren't enrolled in the 9 study until after age 50. About half of 10 ovarian cancers occur before the age of 11 50. 12 So, so I'm not surprised that 13 the associations are attenuated in the 14 cohort studies. 15 BY MR. HEGARTY: 16 Q. Can you cite for me any author in 17 any published literature who has said that the 18 cohort studies showed an association between talc 19 use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 state in their studies that they show an		Page 323		Page 325
4 Summary section of your report, which is on 5 page 6. 6 A. Uh-huh. 7 Q. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 9 study until after age 50. About half of 10 "We note that there is also an 11 association between talc use and ovarian cancer in 12 cohort studies." 13 Do you see where I'm reading? 14 A. I do. 15 Q. Do any of the cohort studies 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 20 Q. My question, though, is very 20 A. Other than in the Gertig article 21 specific. 22 My question is: Do the authors 23 state in their studies that they show an 4 susceptibles in that and so you wouldn't 5 you would already be underestimating the risk. 7 And the WHI, as I indicated, 8 had women who weren't enrolled in the 9 study until after age 50. About half of 10 ovarian cancers occur before the age of 11 50. 12 So, so I'm not surprised that 13 the associations are attenuated in the 14 cohort studies. 15 BY MR. HEGARTY: 16 Q. Can you cite for me any author in 17 any published literature who has said that the 18 cohort studies showed an association between talc 19 use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 state in their studies that they show an	1	Page 323 response. But those are not new data, and this is	1	Page 325 cancer, and they only followed up those
5 page 6. 6 A. Uh-huh. 7 Q. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 10 "We note that there is also an 11 association between talc use and ovarian cancer in 12 cohort studies." 13 Do you see where I'm reading? 14 A. I do. 15 Q. Do any of the cohort studies 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 20 Q. My question, though, is very 21 Su was statistically significant, I believe. Yeah.	1 2	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses.	1 2	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer
6 A. Uh-huh. 7 Q. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 10 "We note that there is also an 11 association between talc use and ovarian cancer in 12 cohort studies." 13 Do you see where I'm reading? 14 A. I do. 15 Q. Do any of the cohort studies 15 Q. Do any of the cohort studies 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 20 Q. My question, though, is very 21 specific. 22 My question is: Do the authors 23 state in their studies that they show an 26 the risk. 7 And the WHI, as I indicated, 8 had women who weren't enrolled in the 9 study until after age 50. About half of 10 ovarian cancers occur before the age of 11 50. 12 So, so I'm not surprised that 13 the associations are attenuated in the 14 cohort studies. 15 BY MR. HEGARTY: 16 Q. Can you cite for me any author in 17 any published literature who has said that the 18 cohort studies showed an association between talc 19 use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 state in their studies that they show an	1 2 3	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive	1 2 3	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of
7 Q. Second paragraph, the middle of that 8 paragraph you make the sentence you make the 9 statement: 9 study until after age 50. About half of 10 "We note that there is also an 11 association between talc use and ovarian cancer in 12 cohort studies." 13 Do you see where I'm reading? 14 A. I do. 15 Q. Do any of the cohort studies 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 10 And the WHI, as I indicated, 18 had women who weren't enrolled in the 19 study until after age 50. About half of 10 ovarian cancers occur before the age of 11 50. 12 So, so I'm not surprised that 13 the associations are attenuated in the 14 cohort studies. 15 BY MR. HEGARTY: 16 Q. Can you cite for me any author in 17 any published literature who has said that the 18 cohort studies showed an association between talc 19 use and ovarian cancer? 20 Q. My question, though, is very 21 specific. 22 Wy question is: Do the authors 23 state in their studies that they show an 24 And the WHI, as I indicated, 8 had women who weren't enrolled in the 29 study until after age 50. About half of 10 ovarian cancers occur before the age of 11 association studies in the associations are attenuated in the 14 cohort studies. 15 BY MR. HEGARTY: 16 Q. Can you cite for me any author in 17 any published literature who has said that the 18 cohort studies showed an association between talc 19 use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 state in their studies that they show an	1 2 3 4	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on	1 2 3 4	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't
8 paragraph you make the sentence you make the 9 statement: 9 statement: 9 study until after age 50. About half of 10 "We note that there is also an 11 association between talc use and ovarian cancer in 12 cohort studies." 12 So, so I'm not surprised that 13 Do you see where I'm reading? 14 A. I do. 15 Q. Do any of the cohort studies 15 BY MR. HEGARTY: 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 19 use and ovarian cancer? 20 Q. My question, though, is very 21 specific. 22 My question is: Do the authors 23 state in their studies that they show an 24 had women who weren't enrolled in the 9 study until after age 50. About half of 10 ovarian cancers occur before the age of 11 50. 12 So, so I'm not surprised that 13 the associations are attenuated in the 14 cohort studies. 15 BY MR. HEGARTY: 16 Q. Can you cite for me any author in 17 any published literature who has said that the 18 cohort studies showed an association between talc 19 use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 state in their studies that they show an	1 2 3 4 5	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6.	1 2 3 4 5	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating
9 statement: 9 study until after age 50. About half of 10 "We note that there is also an 11 association between talc use and ovarian cancer in 12 cohort studies." 12 So, so I'm not surprised that 13 Do you see where I'm reading? 14 A. I do. 15 Q. Do any of the cohort studies 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 19 Use and ovarian cancer? 20 Q. My question, though, is very 21 specific. 22 My question is: Do the authors 23 state in their studies that they show an 29 study until after age 50. About half of 10 ovarian cancers occur before the age of 11 association between the age of 12 ovarian cancers accurate for the age of 13 the associations are attenuated in the 14 cohort studies. 15 BY MR. HEGARTY: 16 Q. Can you cite for me any author in 17 any published literature who has said that the 18 cohort studies showed an association between talc 19 use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 state in their studies that they show an 24 was statistically significant, I believe. Yeah.	1 2 3 4 5 6	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6. A. Uh-huh.	1 2 3 4 5 6	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating the risk.
10 "We note that there is also an 11 association between talc use and ovarian cancer in 12 cohort studies." 12 So, so I'm not surprised that 13 Do you see where I'm reading? 14 A. I do. 15 Q. Do any of the cohort studies 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 10 ovarian cancers occur before the age of 11 50. 12 So, so I'm not surprised that 13 the associations are attenuated in the 14 cohort studies. 15 BY MR. HEGARTY: 16 Q. Can you cite for me any author in 17 any published literature who has said that the 18 cohort studies showed an association between talc 19 it. 19 use and ovarian cancer? 20 Q. My question, though, is very 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 state in their studies that they show an 23 was statistically significant, I believe. Yeah.	1 2 3 4 5 6 7	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6. A. Uh-huh. Q. Second paragraph, the middle of that	1 2 3 4 5 6 7	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating the risk. And the WHI, as I indicated,
11 association between talc use and ovarian cancer in 12 cohort studies." 13 Do you see where I'm reading? 14 A. I do. 15 Q. Do any of the cohort studies 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 10 Q. My question, though, is very 20 Q. My question, though, is very 21 specific. 22 My question is: Do the authors 23 state in their studies that they show an 25 So, so I'm not surprised that 16 Q. Can you cite for me any author in 17 any published literature who has said that the 18 cohort studies showed an association between talc 19 use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 was statistically significant, I believe. Yeah.	1 2 3 4 5 6 7 8	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6. A. Uh-huh. Q. Second paragraph, the middle of that paragraph you make the sentence you make the	1 2 3 4 5 6 7 8	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating the risk. And the WHI, as I indicated, had women who weren't enrolled in the
12 So, so I'm not surprised that 13 Do you see where I'm reading? 14 A. I do. 15 Q. Do any of the cohort studies 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 19 use and ovarian cancer? 20 Q. My question, though, is very 21 specific. 22 My question is: Do the authors 23 state in their studies that they show an 25 So, so I'm not surprised that 16 Cohort studies. 16 Q. Can you cite for me any author in 17 any published literature who has said that the 18 cohort studies showed an association between talc 19 use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 was statistically significant, I believe. Yeah.	1 2 3 4 5 6 7 8 9	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6. A. Uh-huh. Q. Second paragraph, the middle of that paragraph you make the sentence you make the statement:	1 2 3 4 5 6 7 8 9	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating the risk. And the WHI, as I indicated, had women who weren't enrolled in the study until after age 50. About half of
Do you see where I'm reading? 13 the associations are attenuated in the 14 A. I do. 15 Q. Do any of the cohort studies 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 19 use and ovarian cancer? 20 Q. My question, though, is very 21 specific. 22 My question is: Do the authors 23 state in their studies that they show an 24 cohort studies. 25 BY MR. HEGARTY: 26 Q. Can you cite for me any author in 27 any published literature who has said that the 28 cohort studies showed an association between talc 29 use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 was statistically significant, I believe. Yeah.	1 2 3 4 5 6 7 8 9	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6. A. Uh-huh. Q. Second paragraph, the middle of that paragraph you make the sentence you make the statement: "We note that there is also an	1 2 3 4 5 6 7 8 9	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating the risk. And the WHI, as I indicated, had women who weren't enrolled in the study until after age 50. About half of ovarian cancers occur before the age of
14 A. I do. 15 Q. Do any of the cohort studies 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 19 it. 20 Q. My question, though, is very 21 specific. 22 My question is: Do the authors 23 state in their studies that they show an 24 cohort studies. 15 BY MR. HEGARTY: 16 Q. Can you cite for me any author in 17 any published literature who has said that the 18 cohort studies showed an association between talc 19 use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 was statistically significant, I believe. Yeah.	1 2 3 4 5 6 7 8 9 10 11	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6. A. Uh-huh. Q. Second paragraph, the middle of that paragraph you make the sentence you make the statement: "We note that there is also an association between talc use and ovarian cancer in	1 2 3 4 5 6 7 8 9 10	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating the risk. And the WHI, as I indicated, had women who weren't enrolled in the study until after age 50. About half of ovarian cancers occur before the age of 50.
15 Q. Do any of the cohort studies 16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 19 Q. Can you cite for me any author in 17 any published literature who has said that the 18 cohort studies showed an association between talc 19 it. 19 use and ovarian cancer? 20 Q. My question, though, is very 21 specific. 22 where they did say for those those with a 23 state in their studies that they show an 24 was statistically significant, I believe. Yeah.	1 2 3 4 5 6 7 8 9 10 11 12	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6. A. Uh-huh. Q. Second paragraph, the middle of that paragraph you make the sentence you make the statement: "We note that there is also an association between talc use and ovarian cancer in cohort studies."	1 2 3 4 5 6 7 8 9 10 11 12	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating the risk. And the WHI, as I indicated, had women who weren't enrolled in the study until after age 50. About half of ovarian cancers occur before the age of 50. So, so I'm not surprised that
16 themselves say that there is an association 17 between talc use and ovarian cancer? 18 A. Yes, the Nurses' Health Study shows 19 it. 19 use and ovarian cancer? 20 Q. My question, though, is very 21 specific. 22 My question is: Do the authors 23 state in their studies that they show an 26 Q. Can you cite for me any author in 17 any published literature who has said that the 18 cohort studies showed an association between talc 19 use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 was statistically significant, I believe. Yeah.	1 2 3 4 5 6 7 8 9 10 11 12 13	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6. A. Uh-huh. Q. Second paragraph, the middle of that paragraph you make the sentence you make the statement: "We note that there is also an association between talc use and ovarian cancer in cohort studies." Do you see where I'm reading?	1 2 3 4 5 6 7 8 9 10 11 12 13	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating the risk. And the WHI, as I indicated, had women who weren't enrolled in the study until after age 50. About half of ovarian cancers occur before the age of 50. So, so I'm not surprised that the associations are attenuated in the
17 any published literature who has said that the 18 A. Yes, the Nurses' Health Study shows 19 it. 19 use and ovarian cancer? 20 Q. My question, though, is very 21 specific. 22 My question is: Do the authors 23 state in their studies that they show an 25 any published literature who has said that the 18 cohort studies showed an association between talc 19 use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 was statistically significant, I believe. Yeah.	1 2 3 4 5 6 7 8 9 10 11 12 13 14	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6. A. Uh-huh. Q. Second paragraph, the middle of that paragraph you make the sentence you make the statement: "We note that there is also an association between talc use and ovarian cancer in cohort studies." Do you see where I'm reading? A. I do.	1 2 3 4 5 6 7 8 9 10 11 12 13 14	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating the risk. And the WHI, as I indicated, had women who weren't enrolled in the study until after age 50. About half of ovarian cancers occur before the age of 50. So, so I'm not surprised that the associations are attenuated in the cohort studies.
18 A. Yes, the Nurses' Health Study shows 19 it. 19 use and ovarian cancer? 20 Q. My question, though, is very 21 specific. 21 where they did say for those those with a 22 My question is: Do the authors 23 state in their studies that they show an 24 cohort studies showed an association between talc 25 use and ovarian cancer? 26 A. Other than in the Gertig article 27 where they did say for those those with a 28 with serous tumors had an association they thought 29 was statistically significant, I believe. Yeah.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6. A. Uh-huh. Q. Second paragraph, the middle of that paragraph you make the sentence you make the statement: "We note that there is also an association between talc use and ovarian cancer in cohort studies." Do you see where I'm reading? A. I do. Q. Do any of the cohort studies	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating the risk. And the WHI, as I indicated, had women who weren't enrolled in the study until after age 50. About half of ovarian cancers occur before the age of 50. So, so I'm not surprised that the associations are attenuated in the cohort studies. BY MR. HEGARTY:
19 it. 20 Q. My question, though, is very 21 specific. 22 My question is: Do the authors 23 state in their studies that they show an 19 use and ovarian cancer? 20 A. Other than in the Gertig article 21 where they did say for those those with a 22 with serous tumors had an association they thought 23 was statistically significant, I believe. Yeah.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6. A. Uh-huh. Q. Second paragraph, the middle of that paragraph you make the sentence you make the statement: "We note that there is also an association between talc use and ovarian cancer in cohort studies." Do you see where I'm reading? A. I do. Q. Do any of the cohort studies themselves say that there is an association	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating the risk. And the WHI, as I indicated, had women who weren't enrolled in the study until after age 50. About half of ovarian cancers occur before the age of 50. So, so I'm not surprised that the associations are attenuated in the cohort studies. BY MR. HEGARTY: Q. Can you cite for me any author in
20Q.My question, though, is very20A.Other than in the Gertig article21 specific.21 where they did say for those those with a22My question is: Do the authors22 with serous tumors had an association they thought23 state in their studies that they show an23 was statistically significant, I believe. Yeah.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6. A. Uh-huh. Q. Second paragraph, the middle of that paragraph you make the sentence you make the statement: "We note that there is also an association between talc use and ovarian cancer in cohort studies." Do you see where I'm reading? A. I do. Q. Do any of the cohort studies themselves say that there is an association between talc use and ovarian cancer?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating the risk. And the WHI, as I indicated, had women who weren't enrolled in the study until after age 50. About half of ovarian cancers occur before the age of 50. So, so I'm not surprised that the associations are attenuated in the cohort studies. BY MR. HEGARTY: Q. Can you cite for me any author in any published literature who has said that the
21 specific. 21 where they did say for those those with a 22 My question is: Do the authors 22 with serous tumors had an association they thought 23 state in their studies that they show an 23 was statistically significant, I believe. Yeah.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6. A. Uh-huh. Q. Second paragraph, the middle of that paragraph you make the sentence you make the statement: "We note that there is also an association between talc use and ovarian cancer in cohort studies." Do you see where I'm reading? A. I do. Q. Do any of the cohort studies themselves say that there is an association between talc use and ovarian cancer? A. Yes, the Nurses' Health Study shows	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating the risk. And the WHI, as I indicated, had women who weren't enrolled in the study until after age 50. About half of ovarian cancers occur before the age of 50. So, so I'm not surprised that the associations are attenuated in the cohort studies. BY MR. HEGARTY: Q. Can you cite for me any author in any published literature who has said that the cohort studies showed an association between talc
22 My question is: Do the authors 22 with serous tumors had an association they thought 23 state in their studies that they show an 23 was statistically significant, I believe. Yeah.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6. A. Uh-huh. Q. Second paragraph, the middle of that paragraph you make the sentence you make the statement: "We note that there is also an association between talc use and ovarian cancer in cohort studies." Do you see where I'm reading? A. I do. Q. Do any of the cohort studies themselves say that there is an association between talc use and ovarian cancer? A. Yes, the Nurses' Health Study shows it.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating the risk. And the WHI, as I indicated, had women who weren't enrolled in the study until after age 50. About half of ovarian cancers occur before the age of 50. So, so I'm not surprised that the associations are attenuated in the cohort studies. BY MR. HEGARTY: Q. Can you cite for me any author in any published literature who has said that the cohort studies showed an association between talc use and ovarian cancer?
23 state in their studies that they show an 23 was statistically significant, I believe. Yeah.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6. A. Uh-huh. Q. Second paragraph, the middle of that paragraph you make the sentence you make the statement: "We note that there is also an association between talc use and ovarian cancer in cohort studies." Do you see where I'm reading? A. I do. Q. Do any of the cohort studies themselves say that there is an association between talc use and ovarian cancer? A. Yes, the Nurses' Health Study shows it. Q. My question, though, is very	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating the risk. And the WHI, as I indicated, had women who weren't enrolled in the study until after age 50. About half of ovarian cancers occur before the age of 50. So, so I'm not surprised that the associations are attenuated in the cohort studies. BY MR. HEGARTY: Q. Can you cite for me any author in any published literature who has said that the cohort studies showed an association between talc use and ovarian cancer? A. Other than in the Gertig article
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6. A. Uh-huh. Q. Second paragraph, the middle of that paragraph you make the sentence you make the statement: "We note that there is also an association between talc use and ovarian cancer in cohort studies." Do you see where I'm reading? A. I do. Q. Do any of the cohort studies themselves say that there is an association between talc use and ovarian cancer? A. Yes, the Nurses' Health Study shows it. Q. My question, though, is very specific.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating the risk. And the WHI, as I indicated, had women who weren't enrolled in the study until after age 50. About half of ovarian cancers occur before the age of 50. So, so I'm not surprised that the associations are attenuated in the cohort studies. BY MR. HEGARTY: Q. Can you cite for me any author in any published literature who has said that the cohort studies showed an association between talc use and ovarian cancer? A. Other than in the Gertig article where they did say for those those with a
24 association between talc use and ovarian cancer? 24 Q. Anywhere else besides Gertig as to	1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6. A. Uh-huh. Q. Second paragraph, the middle of that paragraph you make the sentence you make the statement: "We note that there is also an association between talc use and ovarian cancer in cohort studies." Do you see where I'm reading? A. I do. Q. Do any of the cohort studies themselves say that there is an association between talc use and ovarian cancer? A. Yes, the Nurses' Health Study shows it. Q. My question, though, is very specific. My question is: Do the authors	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating the risk. And the WHI, as I indicated, had women who weren't enrolled in the study until after age 50. About half of ovarian cancers occur before the age of 50. So, so I'm not surprised that the associations are attenuated in the cohort studies. BY MR. HEGARTY: Q. Can you cite for me any author in any published literature who has said that the cohort studies showed an association between talc use and ovarian cancer? A. Other than in the Gertig article where they did say for those those with a with serous tumors had an association they thought
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Page 323 response. But those are not new data, and this is new data. The other ones are meta-analyses. Q. Please turn over to the Executive Summary section of your report, which is on page 6. A. Uh-huh. Q. Second paragraph, the middle of that paragraph you make the sentence you make the statement: "We note that there is also an association between talc use and ovarian cancer in cohort studies." Do you see where I'm reading? A. I do. Q. Do any of the cohort studies themselves say that there is an association between talc use and ovarian cancer? A. Yes, the Nurses' Health Study shows it. Q. My question, though, is very specific. My question is: Do the authors state in their studies that they show an	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Page 325 cancer, and they only followed up those who hadn't already had ovarian cancer and, therefore, you have a depletion of susceptibles in that and so you wouldn't you would already be underestimating the risk. And the WHI, as I indicated, had women who weren't enrolled in the study until after age 50. About half of ovarian cancers occur before the age of 50. So, so I'm not surprised that the associations are attenuated in the cohort studies. BY MR. HEGARTY: Q. Can you cite for me any author in any published literature who has said that the cohort studies showed an association between talc use and ovarian cancer? A. Other than in the Gertig article where they did say for those those with a with serous tumors had an association they thought was statistically significant, I believe. Yeah.

1	Page 326 serous invasive ovarian cancer?	Page 328 1 was not statistically significant, correct?
$\frac{1}{2}$	A. And the joint analysis that O'Brien	2 A. The confidence interval did include
3	did with respect to patent open patent tracts.	3 1.0, but there but it should be noted that
4	Q. In your "Case-control studies"	4 hospital control use of hospital controls can
5	section at page 8, you talk about the lengths	5 often attenuate the association because the reason
6	length of study, correct? Lengths of study.	6 for them being in the hospital could be related or
7	A. Under "Case-control studies"?	7 could be a confounding factor on things that
8	Q. Yes, page 8.	8 influence women's gynecologic cancers.
9	A. Oh, I'm sorry.	9 So, you know, I'm not surprised
10	Q. At the top.	10 that that we see a little bit of a difference
11	A. Yes.	11 there.
12	MR. HEGARTY: I'm going to	12 Q. You had done hospital-control
13	show you the Langseth 2008 study, which I	_
14	marked as Exhibit 21.	14 studies?
15	(Document marked for	15 A. Most of my research has been
16	identification as Harlow Exhibit 21.)	16 population-based. I'm trying to think about my
17	THE WITNESS: Yeah. Yep.	17 study in 1989. I know that was cancer
18	BY MR. HEGARTY:	18 population-based cases. Did I use?
19	Q. In this study, the authors reported	Because all my other research
20	heterogeneity between the hospital and the	20 outside of ovarian cancer has been
21	population-based studies, correct?	21 population-based, but let me just see in the
22	A. Yes.	22 those tumors. Let me see.
23	Q. That means that the combined results	23 (Reviews document.)
24	of those studies were different from a statistical	Yeah, population-based.
	Page 327	
1	standpoint, correct?	1 Q. Okay.
		1
2	A. Oh, can I see the the exhibit?	2 A. So I've really done all
3	Oh, here we go.	2 A. So I've really done all 3 population-based research.
3 4	Oh, here we go. Q. Take a look at Figure 1.	 2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article
3 4 5	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go.	 2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008?
3 4 5 6	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go. Right. Right. So the question?	 2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008? 6 A. Not in 2008.
3 4 5 6 7	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go. Right. Right. So the question? Q. Let me start ask it a different	 2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008? 6 A. Not in 2008. 7 Q. Had you read it prior to being
3 4 5 6 7 8	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go. Right. Right. So the question? Q. Let me start ask it a different way.	 2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008? 6 A. Not in 2008. 7 Q. Had you read it prior to being 8 contacted by plaintiffs' counsel in this case
3 4 5 6 7 8 9	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go. Right. Right. So the question? Q. Let me start ask it a different way. None of the hospital studies showed	 2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008? 6 A. Not in 2008. 7 Q. Had you read it prior to being 8 contacted by plaintiffs' counsel in this case 9 about serving as an expert witness?
3 4 5 6 7 8 9 10	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go. Right. Right. So the question? Q. Let me start ask it a different way. None of the hospital studies showed a statistically significant increase in risk	 2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008? 6 A. Not in 2008. 7 Q. Had you read it prior to being 8 contacted by plaintiffs' counsel in this case 9 about serving as an expert witness? 10 A. No, I had not.
3 4 5 6 7 8 9 10	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go. Right. Right. So the question? Q. Let me start ask it a different way. None of the hospital studies showed a statistically significant increase in risk between talc use and ovarian cancer, correct?	2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008? 6 A. Not in 2008. 7 Q. Had you read it prior to being 8 contacted by plaintiffs' counsel in this case 9 about serving as an expert witness? 10 A. No, I had not. 11 Q. Please look at the section under
3 4 5 6 7 8 9 10 11 12	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go. Right. Right. So the question? Q. Let me start ask it a different way. None of the hospital studies showed a statistically significant increase in risk between talc use and ovarian cancer, correct? MR. TISI: Objection.	2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008? 6 A. Not in 2008. 7 Q. Had you read it prior to being 8 contacted by plaintiffs' counsel in this case 9 about serving as an expert witness? 10 A. No, I had not. 11 Q. Please look at the section under 12 "Proposal to Research Community."
3 4 5 6 7 8 9 10 11 12 13	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go. Right. Right. So the question? Q. Let me start ask it a different way. None of the hospital studies showed a statistically significant increase in risk between talc use and ovarian cancer, correct? MR. TISI: Objection. THE WITNESS: Well, the pooled	2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008? 6 A. Not in 2008. 7 Q. Had you read it prior to being 8 contacted by plaintiffs' counsel in this case 9 about serving as an expert witness? 10 A. No, I had not. 11 Q. Please look at the section under 12 "Proposal to Research Community." 13 A. Yes.
3 4 5 6 7 8 9 10 11 12 13 14	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go. Right. Right. So the question? Q. Let me start ask it a different way. None of the hospital studies showed a statistically significant increase in risk between talc use and ovarian cancer, correct? MR. TISI: Objection. THE WITNESS: Well, the pooled analysis for the hospital-based study was	2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008? 6 A. Not in 2008. 7 Q. Had you read it prior to being 8 contacted by plaintiffs' counsel in this case 9 about serving as an expert witness? 10 A. No, I had not. 11 Q. Please look at the section under 12 "Proposal to Research Community." 13 A. Yes. 14 Q. That proposal says that:
3 4 5 6 7 8 9 10 11 12 13 14 15	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go. Right. Right. So the question? Q. Let me start ask it a different way. None of the hospital studies showed a statistically significant increase in risk between talc use and ovarian cancer, correct? MR. TISI: Objection. THE WITNESS: Well, the pooled analysis for the hospital-based study was 1.12 with a confidence interval of 0.92	2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008? 6 A. Not in 2008. 7 Q. Had you read it prior to being 8 contacted by plaintiffs' counsel in this case 9 about serving as an expert witness? 10 A. No, I had not. 11 Q. Please look at the section under 12 "Proposal to Research Community." 13 A. Yes. 14 Q. That proposal says that: 15 "The current body of experimental
3 4 5 6 7 8 9 10 11 12 13 14 15 16	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go. Right. Right. So the question? Q. Let me start ask it a different way. None of the hospital studies showed a statistically significant increase in risk between talc use and ovarian cancer, correct? MR. TISI: Objection. THE WITNESS: Well, the pooled analysis for the hospital-based study was 1.12 with a confidence interval of 0.92 to 1.36, which means that falls somewhere	2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008? 6 A. Not in 2008. 7 Q. Had you read it prior to being 8 contacted by plaintiffs' counsel in this case 9 about serving as an expert witness? 10 A. No, I had not. 11 Q. Please look at the section under 12 "Proposal to Research Community." 13 A. Yes. 14 Q. That proposal says that: 15 "The current body of experimental 16 and epidemiological evidence is insufficient to
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go. Right. Right. So the question? Q. Let me start ask it a different way. None of the hospital studies showed a statistically significant increase in risk between talc use and ovarian cancer, correct? MR. TISI: Objection. THE WITNESS: Well, the pooled analysis for the hospital-based study was 1.12 with a confidence interval of 0.92 to 1.36, which means that falls somewhere in between there. So that's what their	2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008? 6 A. Not in 2008. 7 Q. Had you read it prior to being 8 contacted by plaintiffs' counsel in this case 9 about serving as an expert witness? 10 A. No, I had not. 11 Q. Please look at the section under 12 "Proposal to Research Community." 13 A. Yes. 14 Q. That proposal says that: 15 "The current body of experimental 16 and epidemiological evidence is insufficient to 17 establish a causal association between perineal
3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go. Right. Right. So the question? Q. Let me start ask it a different way. None of the hospital studies showed a statistically significant increase in risk between talc use and ovarian cancer, correct? MR. TISI: Objection. THE WITNESS: Well, the pooled analysis for the hospital-based study was 1.12 with a confidence interval of 0.92 to 1.36, which means that falls somewhere in between there. So that's what their finding was there.	2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008? 6 A. Not in 2008. 7 Q. Had you read it prior to being 8 contacted by plaintiffs' counsel in this case 9 about serving as an expert witness? 10 A. No, I had not. 11 Q. Please look at the section under 12 "Proposal to Research Community." 13 A. Yes. 14 Q. That proposal says that: 15 "The current body of experimental 16 and epidemiological evidence is insufficient to 17 establish a causal association between perineal 18 use of talc and ovarian cancer risk."
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go. Right. Right. So the question? Q. Let me start ask it a different way. None of the hospital studies showed a statistically significant increase in risk between talc use and ovarian cancer, correct? MR. TISI: Objection. THE WITNESS: Well, the pooled analysis for the hospital-based study was 1.12 with a confidence interval of 0.92 to 1.36, which means that falls somewhere in between there. So that's what their finding was there. And then for the pooled odds	2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008? 6 A. Not in 2008. 7 Q. Had you read it prior to being 8 contacted by plaintiffs' counsel in this case 9 about serving as an expert witness? 10 A. No, I had not. 11 Q. Please look at the section under 12 "Proposal to Research Community." 13 A. Yes. 14 Q. That proposal says that: 15 "The current body of experimental 16 and epidemiological evidence is insufficient to 17 establish a causal association between perineal 18 use of talc and ovarian cancer risk." 19 Was that a fair conclusion from the
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go. Right. Right. So the question? Q. Let me start ask it a different way. None of the hospital studies showed a statistically significant increase in risk between talc use and ovarian cancer, correct? MR. TISI: Objection. THE WITNESS: Well, the pooled analysis for the hospital-based study was 1.12 with a confidence interval of 0.92 to 1.36, which means that falls somewhere in between there. So that's what their finding was there. And then for the pooled odds ratios for the case for the	2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008? 6 A. Not in 2008. 7 Q. Had you read it prior to being 8 contacted by plaintiffs' counsel in this case 9 about serving as an expert witness? 10 A. No, I had not. 11 Q. Please look at the section under 12 "Proposal to Research Community." 13 A. Yes. 14 Q. That proposal says that: 15 "The current body of experimental 16 and epidemiological evidence is insufficient to 17 establish a causal association between perineal 18 use of talc and ovarian cancer risk." 19 Was that a fair conclusion from the 20 data they reported here back in 2008?
3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go. Right. Right. So the question? Q. Let me start ask it a different way. None of the hospital studies showed a statistically significant increase in risk between talc use and ovarian cancer, correct? MR. TISI: Objection. THE WITNESS: Well, the pooled analysis for the hospital-based study was 1.12 with a confidence interval of 0.92 to 1.36, which means that falls somewhere in between there. So that's what their finding was there. And then for the pooled odds ratios for the case for the population-based studies, it was 1.4 with	2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008? 6 A. Not in 2008. 7 Q. Had you read it prior to being 8 contacted by plaintiffs' counsel in this case 9 about serving as an expert witness? 10 A. No, I had not. 11 Q. Please look at the section under 12 "Proposal to Research Community." 13 A. Yes. 14 Q. That proposal says that: 15 "The current body of experimental 16 and epidemiological evidence is insufficient to 17 establish a causal association between perineal 18 use of talc and ovarian cancer risk." 19 Was that a fair conclusion from the 20 data they reported here back in 2008? 21 MS. PARFITT: Objection.
3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go. Right. Right. So the question? Q. Let me start ask it a different way. None of the hospital studies showed a statistically significant increase in risk between talc use and ovarian cancer, correct? MR. TISI: Objection. THE WITNESS: Well, the pooled analysis for the hospital-based study was 1.12 with a confidence interval of 0.92 to 1.36, which means that falls somewhere in between there. So that's what their finding was there. And then for the pooled odds ratios for the case for the population-based studies, it was 1.4 with a confidence interval of 1.29 to 1.52.	2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008? 6 A. Not in 2008. 7 Q. Had you read it prior to being 8 contacted by plaintiffs' counsel in this case 9 about serving as an expert witness? 10 A. No, I had not. 11 Q. Please look at the section under 12 "Proposal to Research Community." 13 A. Yes. 14 Q. That proposal says that: 15 "The current body of experimental 16 and epidemiological evidence is insufficient to 17 establish a causal association between perineal 18 use of talc and ovarian cancer risk." 19 Was that a fair conclusion from the 20 data they reported here back in 2008? 21 MS. PARFITT: Objection. 22 THE WITNESS: Yeah. Well, no,
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Oh, here we go. Q. Take a look at Figure 1. A. Yeah, here we go. Right. Right. So the question? Q. Let me start ask it a different way. None of the hospital studies showed a statistically significant increase in risk between talc use and ovarian cancer, correct? MR. TISI: Objection. THE WITNESS: Well, the pooled analysis for the hospital-based study was 1.12 with a confidence interval of 0.92 to 1.36, which means that falls somewhere in between there. So that's what their finding was there. And then for the pooled odds ratios for the case for the population-based studies, it was 1.4 with	2 A. So I've really done all 3 population-based research. 4 Q. Did you read the Langseth article 5 when it came out in 2008? 6 A. Not in 2008. 7 Q. Had you read it prior to being 8 contacted by plaintiffs' counsel in this case 9 about serving as an expert witness? 10 A. No, I had not. 11 Q. Please look at the section under 12 "Proposal to Research Community." 13 A. Yes. 14 Q. That proposal says that: 15 "The current body of experimental 16 and epidemiological evidence is insufficient to 17 establish a causal association between perineal 18 use of talc and ovarian cancer risk." 19 Was that a fair conclusion from the 20 data they reported here back in 2008? 21 MS. PARFITT: Objection.

1 studies, particularly the population-based studies, which are the composed state are more of a gold standard approach for epidemiological research, 5 every one of the estimates are above 1 with a very narrow confidence interval of 7 1.3 to 1.5. 8 So to say that the current 9 body of epidemiologic evidence is 10 insufficient is not, in my view, correct. 11 The experimental I can't – I can't, you 12 know, make a comment on. 12 BY MR. HEGARTY: 14 Q. If you look over at the left-hand 15 side of page 359. 14 A. Yes. 16 A. Yes. 17 Q. The middle paragraph. 18 A. Yes. 19 Q. Towards the bottom. They make the 20 statement that: 21 "The main epidemiological evidence 22 against the association is the absence of clear 23 exposure-response associations in most study, as well as the absence of an overall excess risk in 2 every hich I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not – were present. 10 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 3 for us to be concerned about this. exposure? Yes. 14 And then – and then the absence of 15 an overall excess risk in the cohort study, Tve 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was – there is – was a 20 causal relationship or there is a causal 21 relationship or there is a causal 22 and analysis; but in my papers, particularly 1992, 1 Va believe the commended that women should be warned 23 analysis; but in my papers, particularly 1992, 1 Va believe the commended that women should be warned 24 Va be cone of your teachers?		Page 330		Page 332
2 alternative methods. 3 ones that are more of a gold standard 4 approach for epidemiological research, 5 every one of the estimates are above 1 6 with a very narrow confidence interval of 7 1.3 to 1.5. 8 So to say that the current 9 body of epidemiologic evidence is 10 insufficient is not, in my view, correct. 11 The experimental Lean't – I can't, you 12 know, make a comment on. 13 BY MR. HEGARTY: 14 Q. If you look over at the left-hand 15 side of page 359. 16 A. Yes. 17 Q. The middle paragraph. 18 A. Yes. 19 Q. Towards the bottom. They make the 20 statement that: 21 "The main epidemiological evidence 22 against the association is the absence of clear 23 exposure-response associations in most study, as 24 well as the absence of an overall excess risk in 17 Q. If most sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 10 response are not – were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes 14 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 your believe the evidence was sufficient tover the 19 you believe the evidence was sufficient to wort the 19 you believe the evidence was sufficient tover the 19 you believe the evidence was sufficient tover the 19 you believe the evidence was sufficient tover the 19 you believe the evidence was sufficient tover the 19 you believe the evidence was sufficient tover the 19 you believe the evidence was sufficient tover the 19 you believe the evidence was sufficient tover the 19 you believe the evidence was sufficient tover the 19 you believe the evidence was sufficient tover the 19 you believe the evidence was sufficient tover the 19 you believe the evidence was sufficient tover the 19 you believe the evidence was sufficient tover the 19 you believe the evidence was sufficient tover the 19 you have made to have informed wone of the study was pof	1		1	
ones that are more of a gold standard approach for epidemiological research, every one of the estimates are above 1 with a very narrow confidence interval of 1.3 to 1.5. So to say that the current body of epidemiologic evidence is insufficient is not, in my view, correct. If the experimental Can't – Lan't, you know, make a comment on. If you look over at the left-hand side of page 359. A Yes. If Q. If you look over at the left-hand side of page 359. A Yes. If Q. The middle paragraph. A Yes. If Q. Towards the bottom. They make the statement that: If me an epidemiological evidence against the association is the absence of clear as exposure-response associations in most study, as well as the absence of an overall excess risk in for the disease. And, again, my article in 1992, in so please and then the absence of lo response are not – were present. A C In so sould we have more? Yes, I'd love there to have been more. But is three enough for us to be concerned about this exposure? Yes, I'd love there to have been more. But is three enough for us to be concerned about this exposure? Yes, I'd love there to have been more. But is three enough for us to be concerned about this exposure? Yes, I'd love there to have been more. But is three enough for us to be concerned about this exposure? Yes, I'd love there to have been more. But is three enough for us to be concerned about this exposure? Yes, I'd love there to have been more. But is three enough for us to be concerned about this exposure? Yes, I'd love there to have been more. But is three enough for us to be concerned about this exposure? Yes, I'd love there to have been more. But is three enough for us to be concerned about this exposure? Yes, I'd love there to have been more. But is three enough for us to be concerned about this exposure? A I did not do a causal inference love the evidence was sufficient over the love there to have been more. But is three enough love there to have been more. But is three enough love there to have been more. But is three enough love t				
4 approach for epidemiological research, every one of the estimates are above 1 6 with a very narrow confidence interval of 7 1.3 to 1.5. 8 So to say that the current 9 body of epidemiologic evidence is insufficient is not, in my view, correct. 10 insufficient is not, in my view, correct. 11 The experimental I can't – I can't, you 12 know, make a comment on. 13 BY MR. HEGARTY: 11 The experimental I can't – I can't, you 12 know, make a comment on. 13 BY MR. HEGARTY: 1 The middle paragraph. 14 Q. If you look over at the left-hand 15 side of page 359. 16 A. Yes. 17 Q. The middle paragraph. 18 A. Yes. 19 Q. Towards the bottom. They make the 21 most activated in the association is the absence of clear 23 exposure-response association is not study, as 24 well as the absence of an overall excess risk in 18 2008? 11 the cohort study." 12 Were those true statements back in 3 2008? 12 Were those true statements back in 3 2008? 13 For you work on this case; is that correct? 14 A. I did, but I'm trying to see if it's 2 cited. I don't know that it was cited in my 3 report. So let's just see if it was. 14 A. If my article in 1992, in 1999, other articles that have shown a dose 10 response are not – were present. 15 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then — and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 19 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was – there is – was a 20 causal relationship or there is a causal 12 relationship between tale use and ovarian cancer? 19 years to say that there was – there is – was a 20 causal relationship or there is a causal 12 relationship between tale use and ovarian cancer? 19 years to say that there was – there is – was a 20 causal relationship or there is a causal 12 relationship or there is a causal 21 relationship or there is a causal 21 relationship or th				
5 in 1989. 6 So have I — do we need to have 7 definitively determined causation in order for us 8 to have informed women of the risk, potential risk 9 of using a product that had no reasonable — 10 that — that was not therapeutic or necessary with 11 an alternative available? I think I did my best 12 know, make a comment on. 13 BY MR. HEGARTY: 14 Q. If you look over at the left-hand 15 side of page 359. 16 A. Yes. 16 A. Yes. 17 Q. The middle paragraph. 18 A. Yes. 18 identification as Harlow Exhibit 22.) 19 Q. Towards the bottom. They make the 20 statement that: 21 — "The main epidemiological evidence 2 against the association is the absence of clear 23 exposure-response associations in most study, as 24 well as the absence of an overall excess risk in 19 — Page 331 1 the cohort study." 22 Were those true statements back in 3 2008? 4 A. I mn ot sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not — were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 3 for us to be concerned about this exposure? Yes. 14 And then — and then the absence of 6 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was – there is — was a 20 causal relationship or there is a causal 21 relationship between tale use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I	Ι.	——————————————————————————————————————	_	The state of the s
6 So have I do we need to have 7 1.3 to 1.5. 8 So to say that the current 9 body of epidemiologic evidence is 10 insufficient is not, in my view, correct. 11 The experimental I can't I can't, you 12 know, make a comment on. 13 BY MR. HEGARTY: 14 Q. If you look over at the left-hand 15 side of page 359. 16 A. Yes. 17 Q. The middle paragraph. 18 A. Yes. 19 Q. Towards the bottom. They make the statement that: 21 "The main epidemiological evidence 22 against the association is the absence of clear 32 exposure-response association is the most study, as 24 well as the absence of an overall excess risk in 1 the cohort study." 2 Were those true statements back in 3 2008? 4 A. I'm not sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the discase. 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship between tale use and ovarian cancer? 2 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I	l _			
7		· · · · · · · · · · · · · · · · · · ·	6	
8 to have informed women of the risk, potential risk pody of epidemiologic evidence is 10 insufficient is not, in my view, correct. 11 The experimental I can't I can't, you 12 know, make a comment on. 13 BY MR. HEGARTY: 13 BY MR. HEGARTY: 14 Q. If you look over at the left-hand 15 side of page 359. 16 A. Yes. 16 Q. The middle paragraph. 17 (Document marked for 18 A. Yes. 19 Q. The middle paragraph. 18 A. Yes. 19 Q. Towards the bottom. They make the 18 statement that: 21 "The main epidemiological evidence 22 against the association is the absence of clear 23 exposure-response associations in most study, as 24 well as the absence of an overall excess risk in 19 20. 11 the cohort study." 2 Were those true statements back in 3 2008? 4 A. Im not sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 18 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between tale use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, 1			7	
9 body of epidemiologic evidence is insufficient is not, in my view, correct. 11 The experimental I can't - I can't, you know, make a comment on. 13 BY MR. HEGARTY: 13 MR. HEGARTY: 14 Q. If you look over at the left-hand 15 side of page 359. 16 A. Yes. 17 Q. The middle paragraph. 18 A. Yes. 19 Q. Towards the bottom. They make the constraint that: 20 statement that: 21 "The main epidemiological evidence against the association is the absence of clear 23 exposure-response associations in most study, as 24 well as the absence of an overall excess risk in 22 Were those true statements back in 3 2008? 3 2008? 4 A. I'm not sure what they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the years to say that there was there is a causal 21 relationship between tale use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I to try to provide that warning. 16 MR. HEGARTY: 1 vant to next show you a study with a first author Rosenblatt the that warning. 16 MR. HEGARTY: 1 vant to next show you a study with a first author Rosenblatt that warning. 17 MR. HEGARTY: 1 vant to next show you a study with a first author Rosenblatt study as Exhibit Number 22. 18 Kobenblatt inhear. 4 Schibit Number 22. 19 A. I did, but I'm trying to see if it's 2 cited. I don't know that it was cited in my 3 report. So let's just see if it was No. I'm aware of this study, but I did not it was not 6 in my in my report. 19 Q. He was your primary mentor, correct? 10 Q. He was your primary mentor, correct? 11 A. He was, correct. 12 Q. He was your primary mentor, correct? 13 A. Yes, he was. 14 Q. How would yo	8	So to say that the current		
10 insufficient is not, in my view, correct. The experimental I can't I can't, you 1 know, make a comment on.	9	·	1	-
12 know, make a comment on. 13 BY MR. HEGARTY: 14 Q. If you look over at the left-hand 15 side of page 359. 16 A. Yes. 17 Q. The middle paragraph. 18 A. Yes. 19 Q. Towards the bottom. They make the 20 statement that: 21 "The main epidemiological evidence 22 against the association is the absence of clear 23 exposure-response associations in most study, as 24 well as the absence of an overall excess risk in Page 331 1 the cohort study." 2 Were those true statements back in 3 2008? 4 A. I'm not sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 5 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 your believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between tale use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, 1 24 Li title time it came out in 2011? 25 Let me see if I have 26 Let me see if I have 27 (Document marked for 18 identification as Harlow Exhibit 22.) 19 THE WITNESS: Yes, thank you. 20 Let me see if I have 21 Rosenblatt atend from 2011 I marked as Exhibit Number 22. (D. Document marked for 18 identification as Harlow Exhibit 22.) 21 THE WITNESS: Yes, thank you. 22 Let me see if I have 23 Q. You read the Rosenblatt study as 24 part of your work on this case; is that correct? 2 cited. I don't know that it was cited in my 3 report. So let's just see if it was. 3 No. I'm aware of this study, but I did not it was not 6 in my in my report. 7 Q. One of the authors of the study is 8 Noel Weis	10	insufficient is not, in my view, correct.	10	that that was not therapeutic or necessary with
13 BY MR. HEGARTY: I want to next 14 Q. If you look over at the left-hand 15 side of page 359. 16 A. Yes. 17 Q. The middle paragraph. 18 A. Yes. 19 Q. Towards the bottom. They make the 20 statement that: 21 "The main epidemiological evidence 22 against the association is the absence of clear 23 exposure-response associations in most study, as 24 well as the absence of an overall excess risk in Page 331 1 the cohort study." 2 Were those true statements back in 3 2008? 4 A. I'm not sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I'v 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between tale use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I	11	The experimental I can't I can't, you	11	an alternative available? I think I did my best
14 show you a study with a first author 15 side of page 359. 16 A. Yes. 17 Q. The middle paragraph. 18 A. Yes. 19 Q. Towards the bottom. They make the statement that: 20 statement that: 21 "The main epidemiological evidence against the association is the absence of clear 23 exposure-response associations in most study, as 24 well as the absence of an overall excess risk in 1 the cohort study." 21 Were those true statements back in 3 2008? 31 the cohort study." 22 Were those true statements back in 3 2008? 4 A. I'm not sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 28 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not – were present. 29 I'm not sure what they mean by 5 of the disease. 30 Could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then – and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was – there is – was a 20 causal relationship or there is a causal 21 relationship between tale use and ovarian cancer? 21 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I 23 Q. You said he was your mentor.	12	know, make a comment on.	12	to try to provide that warning.
15 side of page 359. 16 A. Yes. 17 Q. The middle paragraph. 18 A. Yes. 19 Q. Towards the bottom. They make the 20 statement that: 21 "The main epidemiological evidence 22 against the association is the absence of clear 23 exposure-response associations in most study, as 24 well as the absence of an overall excess risk in Page 331 1 the cohort study." 2 Were those true statements back in 3 2008? 4 A. I'm not sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I	13	BY MR. HEGARTY:	13	MR. HEGARTY: I want to next
16	14	Q. If you look over at the left-hand	14	show you a study with a first author
17 Q. The middle paragraph. 18 A. Yes. 19 Q. Towards the bottom. They make the 20 statement that: 21 "The main epidemiological evidence 22 against the association is the absence of clear 23 exposure-response associations in most study, as 24 well as the absence of an overall excess risk in 1 the cohort study." 2 Were those true statements back in 3 2008? 4 A. I'm not sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 identification as Harlow Exhibit 22.) 19 HE WITNESS: Yes, thank you. 20 Let me see if I have Rosenblatt in here. Yeah. 21 Page 331 22 Wark. HEGARTY: 23 A. I did, but I'm trying to see if it's 24 cited. I don't know that it was cited in my 3 report. So let's just see if it was. 4 No. I'm aware of this study. I'm 5 aware of this study, but I did not it was not 6 in my in my report. 7 Q. One of the authors of the study is 8 Noel Weiss? 9 A. That's correct. 10 Q. He was your primary mentor, correct? 11 A. He was, correct. 11 A. He was, correct. 12 Q. He was your primary mentor, correct? 13 A. Yes, he was. 14 Q. How would you characterize his 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between tale use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I	15	side of page 359.	15	Rosenblatt dated from 2011 I marked as
18 A. Yes. 19 Q. Towards the bottom. They make the 20 statement that: 21 "The main epidemiological evidence 22 against the association is the absence of clear 23 exposure-response associations in most study, as 24 well as the absence of an overall excess risk in 22 BY MR. HEGARTY: 23 Q. You read the Rosenblatt study as 24 part of your work on this case; is that correct? Page 331 1 the cohort study." 2 Were those true statements back in 3 2008? 4 A. I'm not sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I	16	A. Yes.	16	Exhibit Number 22.
19 Q. Towards the bottom. They make the 20 statement that: 21 "The main epidemiological evidence 22 against the association is the absence of clear 23 exposure-response associations in most study, as 24 well as the absence of an overall excess risk in 24 part of your work on this case; is that correct? Page 331	17	Q. The middle paragraph.	17	(Document marked for
20 statement that: 21 "The main epidemiological evidence 22 against the association is the absence of clear 23 exposure-response associations in most study, as 24 well as the absence of an overall excess risk in Page 331 1 the cohort study." 2 Were those true statements back in 3 2008? 4 A. I'm not sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 malysis; but in my papers, particularly 1992, I 24 part of your work on this case; is that correct? Page 333 1 A. I did, but I'm trying to see if it's awas. A. I'm mot sure what they mean by 5 exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 A. He was, correct. 15 Q. He was your primary mentor, correct? 16 A. Outstanding. 17 Q. Is he a reliable was he a 18 reliable authority with regard to epidemiology? Yes. 20 Q. Did you read the Rosenblatt study at 21 the time it came out in 2011? 22 A. I can't recall if I did. 23 Q. You said he was your mentor.	18	A. Yes.	18	identification as Harlow Exhibit 22.)
21 "The main epidemiological evidence 22 against the association is the absence of clear 23 exposure-response associations in most study, as 24 well as the absence of an overall excess risk in 24 well as the absence of an overall excess risk in 25 Every those true statements back in 26 Were those true statements back in 27 Ox Ure and the Rosenblatt study as 28 part of your work on this case; is that correct? 28 Page 331 1 the cohort study." 2 Were those true statements back in 3 2008? 4 A. I'm not sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is a causal 20 causal relationship or there is a causal 21 Rosenblatt in here. Yeah. 22 MR HEGARTY: 23 Q. You read the Rosenblatt study as 24 part of your work on this case; is that correct? 2 A. I did not t's now that it was cited in my 3 report. So let's just see if it was. 4 No. I'm aware of this study, but I did not it was not 6 in my in my report. 7 Q. One of the authors of the study is 8 Noel Weiss? 9 A. That's correct. 10 Q. He was your primary mentor, correct? 11 A. He was, correct. 12 Q. He was your primary mentor, correct? 13 A. Yes, he was. 14 Q. How would you characterize his 15 capabilities as an epidemiologist? 16 A. Outstanding. 17 Q. Is he a reliable was he a 18 reliable authority with regard to epidemiology? 19 A. With respect to epidemiology? 20 Q. Did you read the Rosenblatt study at 21 the time it came out in 2011? 22 A. I did not do a causal inference		- ·	1	•
22 against the association is the absence of clear 23 exposure-response associations in most study, as 24 well as the absence of an overall excess risk in Page 331 1 the cohort study." 2 Were those true statements back in 3 2008? 4 A. I'm not sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I				
23 exposure-response associations in most study, as 24 well as the absence of an overall excess risk in 24 part of your work on this case; is that correct? Page 331 1 the cohort study." 2 Were those true statements back in 3 2008? 4 A. I'm not sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I				
24 well as the absence of an overall excess risk in Page 331 1 the cohort study." 2 Were those true statements back in 3 2008? 4 A. I'm not sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I		_	1	
Page 331 1 the cohort study." 2 Were those true statements back in 3 2008? 4 A. I'm not sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I		- · · · · · · · · · · · · · · · · · · ·		•
1 the cohort study." 2 Were those true statements back in 3 2008? 4 A. I'm not sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I	24	well as the absence of an overall excess risk in	24	part of your work on this case; is that correct?
2 Were those true statements back in 3 2008? 4 A. I'm not sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I		Page 331		Page 333
3 report. So let's just see if it was. 4 A. I'm not sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I	1 1			
4 A. I'm not sure what they mean by 5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I				A. I did, but I'm trying to see if it's
5 "exposure-response," which I think they mean is 6 with increasing exposure, you see a greater risk 7 of the disease. 8	2	Were those true statements back in	2	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my
6 with increasing exposure, you see a greater risk 7 of the disease. 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I 6 in my in my report. 7 Q. One of the authors of the study is 8 Noel Weiss? 9 A. That's correct. 10 Q. He was your primary mentor, correct? 11 A. He was, correct. 12 Q. He was your primary mentor, correct? 13 A. Yes, he was. 14 Q. How would you characterize his 15 capabilities as an epidemiologist? 16 A. Outstanding. 17 Q. Is he a reliable was he a 18 reliable authority with regard to epidemiology? Yes. 20 Q. Did you read the Rosenblatt study at 21 the time it came out in 2011? 22 A. I can't recall if I did. 23 Q. You said he was your mentor.	3	Were those true statements back in 2008?	2 3	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was.
7 Q. One of the authors of the study is 8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I 7 Q. One of the authors of the study is 8 Noel Weiss? 9 A. That's correct. 10 Q. He is your primary mentor, correct? 11 A. He was, correct. 12 Q. How would you characterize his 13 A. Yes, he was. 14 Q. How would you characterize his 15 capabilities as an epidemiologist? 16 A. Outstanding. 17 Q. Is he a reliable was he a 18 reliable authority with regard to epidemiology? Yes. 20 Q. Did you read the Rosenblatt study at 21 the time it came out in 2011? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I	2 3 4	Were those true statements back in 2008? A. I'm not sure what they mean by	2 3 4	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm
8 And, again, my article in 1992, in 9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I	2 3 4 5	Were those true statements back in 2008? A. I'm not sure what they mean by "exposure-response," which I think they mean is	2 3 4 5	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm aware of this study, but I did not it was not
9 1999, other articles that have shown a dose 10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I 9 A. That's correct. 10 Q. He is your primary mentor, correct? 11 A. He was, correct. 12 Q. He was your primary mentor, correct? 13 A. Yes, he was. 14 Q. How would you characterize his 15 capabilities as an epidemiologist? 16 A. Outstanding. 17 Q. Is he a reliable was he a 18 reliable authority with regard to epidemiology? 19 A. With respect to epidemiology? 20 Q. Did you read the Rosenblatt study at 21 the time it came out in 2011? 22 A. I can't recall if I did. 23 Q. You said he was your mentor.	2 3 4 5 6	Were those true statements back in 2008? A. I'm not sure what they mean by "exposure-response," which I think they mean is with increasing exposure, you see a greater risk	2 3 4 5 6	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm aware of this study, but I did not it was not in my in my report.
10 response are not were present. 11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I 10 Q. He is your primary mentor, correct? 11 A. He was, correct. 12 Q. He was your primary mentor, correct? 13 A. Yes, he was. 14 Q. How would you characterize his 15 capabilities as an epidemiologist? 16 A. Outstanding. 17 Q. Is he a reliable was he a 18 reliable authority with regard to epidemiology? Yes. 20 Q. Did you read the Rosenblatt study at 21 the time it came out in 2011? 22 A. I can't recall if I did. 23 Q. You said he was your mentor.	2 3 4 5 6 7	Were those true statements back in 2008? A. I'm not sure what they mean by "exposure-response," which I think they mean is with increasing exposure, you see a greater risk of the disease.	2 3 4 5 6 7	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm aware of this study, but I did not it was not in my in my report. Q. One of the authors of the study is
11 So could we have more? Yes, I'd 12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I 11 A. He was, correct. 12 Q. He was your primary mentor, correct? 13 A. Yes, he was. 14 Q. How would you characterize his 15 capabilities as an epidemiologist? 16 A. Outstanding. 17 Q. Is he a reliable was he a 18 reliable authority with regard to epidemiology? Yes. 20 Q. Did you read the Rosenblatt study at 21 the time it came out in 2011? 22 A. I can't recall if I did. 23 Q. You said he was your mentor.	2 3 4 5 6 7 8	Were those true statements back in 2008? A. I'm not sure what they mean by "exposure-response," which I think they mean is with increasing exposure, you see a greater risk of the disease. And, again, my article in 1992, in	2 3 4 5 6 7 8	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm aware of this study, but I did not it was not in my in my report. Q. One of the authors of the study is Noel Weiss?
12 love there to have been more. But is there enough 13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I 12 Q. He was your primary mentor, correct? 13 A. Yes, he was. 14 Q. How would you characterize his 15 capabilities as an epidemiologist? 16 A. Outstanding. 17 Q. Is he a reliable was he a 18 reliable authority with regard to epidemiology? 19 A. With respect to epidemiology? Yes. 20 Q. Did you read the Rosenblatt study at 21 the time it came out in 2011? 22 A. I can't recall if I did. 23 Q. You said he was your mentor.	2 3 4 5 6 7 8 9	Were those true statements back in 2008? A. I'm not sure what they mean by "exposure-response," which I think they mean is with increasing exposure, you see a greater risk of the disease. And, again, my article in 1992, in 1999, other articles that have shown a dose	2 3 4 5 6 7 8 9	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm aware of this study, but I did not it was not in my in my report. Q. One of the authors of the study is Noel Weiss? A. That's correct.
13 for us to be concerned about this exposure? Yes. 14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I 13 A. Yes, he was. 14 Q. How would you characterize his 15 capabilities as an epidemiologist? 16 A. Outstanding. 17 Q. Is he a reliable was he a 18 reliable authority with regard to epidemiology? 19 A. With respect to epidemiology? Yes. 20 Q. Did you read the Rosenblatt study at 21 the time it came out in 2011? 22 A. I can't recall if I did. 23 Q. You said he was your mentor.	2 3 4 5 6 7 8 9 10	Were those true statements back in 2008? A. I'm not sure what they mean by "exposure-response," which I think they mean is with increasing exposure, you see a greater risk of the disease. And, again, my article in 1992, in 1999, other articles that have shown a dose response are not were present.	2 3 4 5 6 7 8 9	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm aware of this study, but I did not it was not in my in my report. Q. One of the authors of the study is Noel Weiss? A. That's correct. Q. He is your primary mentor, correct?
14 And then and then the absence of 15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I 14 Q. How would you characterize his 15 capabilities as an epidemiologist? 16 A. Outstanding. 17 Q. Is he a reliable was he a 18 reliable authority with regard to epidemiology? 19 A. With respect to epidemiology? Yes. 20 Q. Did you read the Rosenblatt study at 21 the time it came out in 2011? 22 A. I can't recall if I did. 23 Q. You said he was your mentor.	2 3 4 5 6 7 8 9 10	Were those true statements back in 2008? A. I'm not sure what they mean by "exposure-response," which I think they mean is with increasing exposure, you see a greater risk of the disease. And, again, my article in 1992, in 1999, other articles that have shown a dose response are not were present. So could we have more? Yes, I'd	2 3 4 5 6 7 8 9 10 11	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm aware of this study, but I did not it was not in my in my report. Q. One of the authors of the study is Noel Weiss? A. That's correct. Q. He is your primary mentor, correct? A. He was, correct.
15 an overall excess risk in the cohort study, I've 16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I 15 capabilities as an epidemiologist? 16 A. Outstanding. 17 Q. Is he a reliable was he a 18 reliable authority with regard to epidemiology? Yes. 20 Q. Did you read the Rosenblatt study at 21 the time it came out in 2011? 22 A. I can't recall if I did. 23 Q. You said he was your mentor.	2 3 4 5 6 7 8 9 10 11 12	Were those true statements back in 2008? A. I'm not sure what they mean by "exposure-response," which I think they mean is with increasing exposure, you see a greater risk of the disease. And, again, my article in 1992, in 1999, other articles that have shown a dose response are not were present. So could we have more? Yes, I'd love there to have been more. But is there enough	2 3 4 5 6 7 8 9 10 11 12	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm aware of this study, but I did not it was not in my in my report. Q. One of the authors of the study is Noel Weiss? A. That's correct. Q. He is your primary mentor, correct? A. He was, correct. Q. He was your primary mentor, correct?
16 talked about that. 17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I 16 A. Outstanding. 17 Q. Is he a reliable was he a 18 reliable authority with regard to epidemiology? Yes. 20 Q. Did you read the Rosenblatt study at 21 the time it came out in 2011? 22 A. I can't recall if I did. 23 Q. You said he was your mentor.	2 3 4 5 6 7 8 9 10 11 12 13	Were those true statements back in 2008? A. I'm not sure what they mean by "exposure-response," which I think they mean is with increasing exposure, you see a greater risk of the disease. And, again, my article in 1992, in 1999, other articles that have shown a dose response are not were present. So could we have more? Yes, I'd love there to have been more. But is there enough for us to be concerned about this exposure? Yes.	2 3 4 5 6 7 8 9 10 11 12 13	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm aware of this study, but I did not it was not in my in my report. Q. One of the authors of the study is Noel Weiss? A. That's correct. Q. He is your primary mentor, correct? A. He was, correct. Q. He was your primary mentor, correct? A. Yes, he was.
17 Q. Have you done an analysis of when 18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I 17 Q. Is he a reliable was he a 18 reliable authority with regard to epidemiology? Yes. 20 Q. Did you read the Rosenblatt study at 21 the time it came out in 2011? 22 A. I can't recall if I did. 23 Q. You said he was your mentor.	2 3 4 5 6 7 8 9 10 11 12 13 14	Were those true statements back in 2008? A. I'm not sure what they mean by "exposure-response," which I think they mean is with increasing exposure, you see a greater risk of the disease. And, again, my article in 1992, in 1999, other articles that have shown a dose response are not were present. So could we have more? Yes, I'd love there to have been more. But is there enough for us to be concerned about this exposure? Yes. And then and then the absence of	2 3 4 5 6 7 8 9 10 11 12 13 14	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm aware of this study, but I did not it was not in my in my report. Q. One of the authors of the study is Noel Weiss? A. That's correct. Q. He is your primary mentor, correct? A. He was, correct. Q. He was your primary mentor, correct? A. Yes, he was. Q. How would you characterize his
18 you believe the evidence was sufficient over the 19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I 18 reliable authority with regard to epidemiology? 19 A. With respect to epidemiology? Yes. 20 Q. Did you read the Rosenblatt study at 21 the time it came out in 2011? 22 A. I can't recall if I did. 23 Q. You said he was your mentor.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Were those true statements back in 2008? A. I'm not sure what they mean by "exposure-response," which I think they mean is with increasing exposure, you see a greater risk of the disease. And, again, my article in 1992, in 1999, other articles that have shown a dose response are not were present. So could we have more? Yes, I'd love there to have been more. But is there enough for us to be concerned about this exposure? Yes. And then and then the absence of an overall excess risk in the cohort study, I've	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm aware of this study, but I did not it was not in my in my report. Q. One of the authors of the study is Noel Weiss? A. That's correct. Q. He is your primary mentor, correct? A. He was, correct. Q. He was your primary mentor, correct? A. Yes, he was. Q. How would you characterize his capabilities as an epidemiologist?
19 years to say that there was there is was a 20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I 19 A. With respect to epidemiology? Yes. 20 Q. Did you read the Rosenblatt study at 21 the time it came out in 2011? 22 A. I can't recall if I did. 23 Q. You said he was your mentor.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Were those true statements back in 2008? A. I'm not sure what they mean by "exposure-response," which I think they mean is with increasing exposure, you see a greater risk of the disease. And, again, my article in 1992, in 1999, other articles that have shown a dose response are not were present. So could we have more? Yes, I'd love there to have been more. But is there enough for us to be concerned about this exposure? Yes. And then and then the absence of an overall excess risk in the cohort study, I've talked about that.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm aware of this study, but I did not it was not in my in my report. Q. One of the authors of the study is Noel Weiss? A. That's correct. Q. He is your primary mentor, correct? A. He was, correct. Q. He was your primary mentor, correct? A. Yes, he was. Q. How would you characterize his capabilities as an epidemiologist? A. Outstanding.
20 causal relationship or there is a causal 21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I 20 Q. Did you read the Rosenblatt study at 21 the time it came out in 2011? 22 A. I can't recall if I did. 23 Q. You said he was your mentor.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Were those true statements back in 2008? A. I'm not sure what they mean by "exposure-response," which I think they mean is with increasing exposure, you see a greater risk of the disease. And, again, my article in 1992, in 1999, other articles that have shown a dose response are not were present. So could we have more? Yes, I'd love there to have been more. But is there enough for us to be concerned about this exposure? Yes. And then and then the absence of an overall excess risk in the cohort study, I've talked about that. Q. Have you done an analysis of when	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm aware of this study, but I did not it was not in my in my report. Q. One of the authors of the study is Noel Weiss? A. That's correct. Q. He is your primary mentor, correct? A. He was, correct. Q. He was your primary mentor, correct? A. Yes, he was. Q. How would you characterize his capabilities as an epidemiologist? A. Outstanding. Q. Is he a reliable was he a
21 relationship between talc use and ovarian cancer? 22 A. I did not do a causal inference 23 analysis; but in my papers, particularly 1992, I 21 the time it came out in 2011? 22 A. I can't recall if I did. 23 Q. You said he was your mentor.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Were those true statements back in 2008? A. I'm not sure what they mean by "exposure-response," which I think they mean is with increasing exposure, you see a greater risk of the disease. And, again, my article in 1992, in 1999, other articles that have shown a dose response are not were present. So could we have more? Yes, I'd love there to have been more. But is there enough for us to be concerned about this exposure? Yes. And then and then the absence of an overall excess risk in the cohort study, I've talked about that. Q. Have you done an analysis of when you believe the evidence was sufficient over the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm aware of this study, but I did not it was not in my in my report. Q. One of the authors of the study is Noel Weiss? A. That's correct. Q. He is your primary mentor, correct? A. He was, correct. Q. He was your primary mentor, correct? A. Yes, he was. Q. How would you characterize his capabilities as an epidemiologist? A. Outstanding. Q. Is he a reliable was he a reliable authority with regard to epidemiology?
22 A. I did not do a causal inference 22 A. I can't recall if I did. 23 analysis; but in my papers, particularly 1992, I 23 Q. You said he was your mentor.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Were those true statements back in 2008? A. I'm not sure what they mean by "exposure-response," which I think they mean is with increasing exposure, you see a greater risk of the disease. And, again, my article in 1992, in 1999, other articles that have shown a dose response are not were present. So could we have more? Yes, I'd love there to have been more. But is there enough for us to be concerned about this exposure? Yes. And then and then the absence of an overall excess risk in the cohort study, I've talked about that. Q. Have you done an analysis of when you believe the evidence was sufficient over the years to say that there was there is was a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm aware of this study, but I did not it was not in my in my report. Q. One of the authors of the study is Noel Weiss? A. That's correct. Q. He is your primary mentor, correct? A. He was, correct. Q. He was your primary mentor, correct? A. Yes, he was. Q. How would you characterize his capabilities as an epidemiologist? A. Outstanding. Q. Is he a reliable was he a reliable authority with regard to epidemiology? Yes.
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Were those true statements back in 2008? A. I'm not sure what they mean by "exposure-response," which I think they mean is with increasing exposure, you see a greater risk of the disease. And, again, my article in 1992, in 1999, other articles that have shown a dose response are not were present. So could we have more? Yes, I'd love there to have been more. But is there enough for us to be concerned about this exposure? Yes. And then and then the absence of an overall excess risk in the cohort study, I've talked about that. Q. Have you done an analysis of when you believe the evidence was sufficient over the years to say that there was there is was a causal relationship or there is a causal	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm aware of this study, but I did not it was not in my in my report. Q. One of the authors of the study is Noel Weiss? A. That's correct. Q. He is your primary mentor, correct? A. He was, correct. Q. He was your primary mentor, correct? A. Yes, he was. Q. How would you characterize his capabilities as an epidemiologist? A. Outstanding. Q. Is he a reliable was he a reliable authority with regard to epidemiology? Yes. Q. Did you read the Rosenblatt study at
24 believe I recommended that women should be warned 24 Was he one of your teachers?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Were those true statements back in 2008? A. I'm not sure what they mean by "exposure-response," which I think they mean is with increasing exposure, you see a greater risk of the disease. And, again, my article in 1992, in 1999, other articles that have shown a dose response are not were present. So could we have more? Yes, I'd love there to have been more. But is there enough for us to be concerned about this exposure? Yes. And then and then the absence of an overall excess risk in the cohort study, I've talked about that. Q. Have you done an analysis of when you believe the evidence was sufficient over the years to say that there was there is was a causal relationship or there is a causal relationship between talc use and ovarian cancer?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm aware of this study, but I did not it was not in my in my report. Q. One of the authors of the study is Noel Weiss? A. That's correct. Q. He is your primary mentor, correct? A. He was, correct. Q. He was your primary mentor, correct? A. Yes, he was. Q. How would you characterize his capabilities as an epidemiologist? A. Outstanding. Q. Is he a reliable was he a reliable authority with regard to epidemiology? A. With respect to epidemiology? Yes. Q. Did you read the Rosenblatt study at the time it came out in 2011?
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Were those true statements back in 2008? A. I'm not sure what they mean by "exposure-response," which I think they mean is with increasing exposure, you see a greater risk of the disease. And, again, my article in 1992, in 1999, other articles that have shown a dose response are not were present. So could we have more? Yes, I'd love there to have been more. But is there enough for us to be concerned about this exposure? Yes. And then and then the absence of an overall excess risk in the cohort study, I've talked about that. Q. Have you done an analysis of when you believe the evidence was sufficient over the years to say that there was there is was a causal relationship or there is a causal relationship between talc use and ovarian cancer? A. I did not do a causal inference	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. I did, but I'm trying to see if it's cited. I don't know that it was cited in my report. So let's just see if it was. No. I'm aware of this study. I'm aware of this study, but I did not it was not in my in my report. Q. One of the authors of the study is Noel Weiss? A. That's correct. Q. He is your primary mentor, correct? A. He was, correct. Q. He was your primary mentor, correct? A. Yes, he was. Q. How would you characterize his capabilities as an epidemiologist? A. Outstanding. Q. Is he a reliable was he a reliable authority with regard to epidemiology? A. With respect to epidemiology? Yes. Q. Did you read the Rosenblatt study at the time it came out in 2011? A. I can't recall if I did. Q. You said he was your mentor.

	Page 334	Page	e 336
1	A. Yes, and he was my dissertation	1 and in some previous ones, but that association	, , , ,
2	advisor.	2 generally has not been consistent within or amon	g
3	Q. So you had great respect for him?	3 studies. Therefore, no stronger adjective than	
4	A. Yes, I do.	4 'possible' appears warranted at this time."	
5	Q. Looking in the "Abstract" of this	5 Do you disagree with those	
6	paper, that looked at genital powder exposure and	6 conclusion statements?	
7	the risk of epithelial ovarian cancer.	7 A. Oh, not I don't necessarily	
8	A. Uh-huh.	8 disagree with it, but this was in 2011 and there	
9	Q. Towards the bottom.	9 have been a number of studies and meta-analyses	S
10	A. Uh-huh.	10 that have been done since then.	
11	Q. The authors, including Dr. Weiss,	11 Q. Were these true statements back in	
	say:	12 2011?	
13	"We noted no clear pattern of risk	13 A. In terms of saying that "possible	
1	increase on the basis of the extent of use,	14 appears warranted at this time"? I would have	
	assessed as years in which powder was used, or as	15 been a little bit stronger in my term.	
	lifetime number of applications for invasive or	16 Q. What stronger term would you have	
17	borderline tumors, or their histologic subtypes."	17 used?	
18	That's a correct statement from what	18 A. Feasible, but I'm okay with that.	
19	their data showed, correct?	19 Q. Turning over to page 739.	
20	A. Actually	20 A. Yes.	
21	MR. TISI: Objection. Please	21 Q. In the "Results" section on the	
22	take a moment and look at the study.	22 right-hand column, first full paragraph. The	
23	THE WITNESS: No, I'm looking	23 authors write:	
24	at it, and I can tell you that for all	24 "We noted no evidence that risk of	
	Page 335	_	337
1	tumors, those who used powder after	1 ovarian cancer increased in association with	337
2	tumors, those who used powder after bathing had a 1.27 excess risk after	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting	
2 3	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was used)	
2 3 4	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was u 4 or as lifetime number of applications) for either	
2 3 4 5	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66.	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was u 4 or as lifetime number of applications) for either 5 invasive or borderline tumors."	
2 3 4 5 6	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66. BY MR. HEGARTY:	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was used or as lifetime number of applications) for either 5 invasive or borderline tumors." 6 Did I read that correctly?	
2 3 4 5 6 7	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66. BY MR. HEGARTY: Q. The part of the abstract I read to	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was used or as lifetime number of applications) for either invasive or borderline tumors." 6 Did I read that correctly? 7 A. Yes, you did.	
2 3 4 5 6 7 8	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66. BY MR. HEGARTY: Q. The part of the abstract I read to you, though, was in regards to dose response,	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was u 4 or as lifetime number of applications) for either 5 invasive or borderline tumors." 6 Did I read that correctly? 7 A. Yes, you did. 8 Q. Is that an accurate summary of their	ısed
2 3 4 5 6 7 8 9	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66. BY MR. HEGARTY: Q. The part of the abstract I read to you, though, was in regards to dose response, correct?	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was used or as lifetime number of applications) for either invasive or borderline tumors." 6 Did I read that correctly? 7 A. Yes, you did. 8 Q. Is that an accurate summary of their 9 evidence with regard to increasing with regard	ısed
2 3 4 5 6 7 8 9 10	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66. BY MR. HEGARTY: Q. The part of the abstract I read to you, though, was in regards to dose response, correct? A. (Reviews document.)	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was used or as lifetime number of applications) for either 5 invasive or borderline tumors." 6 Did I read that correctly? 7 A. Yes, you did. 8 Q. Is that an accurate summary of their 9 evidence with regard to increasing with regard 10 to whether an association increased with the	ısed
2 3 4 5 6 7 8 9 10	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66. BY MR. HEGARTY: Q. The part of the abstract I read to you, though, was in regards to dose response, correct? A. (Reviews document.) Right, but they didn't take it	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was u 4 or as lifetime number of applications) for either 5 invasive or borderline tumors." 6 Did I read that correctly? 7 A. Yes, you did. 8 Q. Is that an accurate summary of their 9 evidence with regard to increasing with regard 10 to whether an association increased with the 11 increasing extent of use?	ısed
2 3 4 5 6 7 8 9 10 11 12	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66. BY MR. HEGARTY: Q. The part of the abstract I read to you, though, was in regards to dose response, correct? A. (Reviews document.) Right, but they didn't take it yes, but they did not take into account times when	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was used or as lifetime number of applications) for either 5 invasive or borderline tumors." 6 Did I read that correctly? 7 A. Yes, you did. 8 Q. Is that an accurate summary of their 9 evidence with regard to increasing with regard 10 to whether an association increased with the 11 increasing extent of use? 12 A. Yes, based on their data. Uh-huh.	ısed
2 3 4 5 6 7 8 9 10 11 12 13	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66. BY MR. HEGARTY: Q. The part of the abstract I read to you, though, was in regards to dose response, correct? A. (Reviews document.) Right, but they didn't take it yes, but they did not take into account times when the genital tract was open. They did not consider	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was to the description of a powder (assessed as years in which powder was to the description of a powder (assessed as years in which powder was to the description of a powder with regard to invasive or borderline tumors." 6 Did I read that correctly? 7 A. Yes, you did. 8 Q. Is that an accurate summary of their of the evidence with regard to increasing with regard to whether an association increased with the increasing extent of use? 10 A. Yes, based on their data. Uh-huh. 11 Q. Please turn over to the "Discussion"	ısed
2 3 4 5 6 7 8 9 10 11 12 13 14	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66. BY MR. HEGARTY: Q. The part of the abstract I read to you, though, was in regards to dose response, correct? A. (Reviews document.) Right, but they didn't take it yes, but they did not take into account times when the genital tract was open. They did not consider issues with respect to ovulation. They did not	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was used or as lifetime number of applications) for either 5 invasive or borderline tumors." 6 Did I read that correctly? 7 A. Yes, you did. 8 Q. Is that an accurate summary of their 9 evidence with regard to increasing with regard 10 to whether an association increased with the 11 increasing extent of use? 12 A. Yes, based on their data. Uh-huh. 13 Q. Please turn over to the "Discussion" 14 section on page 741.	ısed
2 3 4 5 6 7 8 9 10 11 12 13 14 15	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66. BY MR. HEGARTY: Q. The part of the abstract I read to you, though, was in regards to dose response, correct? A. (Reviews document.) Right, but they didn't take it yes, but they did not take into account times when the genital tract was open. They did not consider issues with respect to ovulation. They did not consider whether or not they had whether	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was used or as lifetime number of applications) for either 5 invasive or borderline tumors." 6 Did I read that correctly? 7 A. Yes, you did. 8 Q. Is that an accurate summary of their 9 evidence with regard to increasing with regard 10 to whether an association increased with the 11 increasing extent of use? 12 A. Yes, based on their data. Uh-huh. 13 Q. Please turn over to the "Discussion" 14 section on page 741. 15 A. Well, but if you also look in that	used
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66. BY MR. HEGARTY: Q. The part of the abstract I read to you, though, was in regards to dose response, correct? A. (Reviews document.) Right, but they didn't take it yes, but they did not take into account times when the genital tract was open. They did not consider issues with respect to ovulation. They did not consider whether or not they had whether exposures occurred before or after a tubal	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was used or as lifetime number of applications) for either 5 invasive or borderline tumors." 6 Did I read that correctly? 7 A. Yes, you did. 8 Q. Is that an accurate summary of their 9 evidence with regard to increasing with regard 10 to whether an association increased with the 11 increasing extent of use? 12 A. Yes, based on their data. Uh-huh. 13 Q. Please turn over to the "Discussion" 14 section on page 741. 15 A. Well, but if you also look in that 16 paragraph, risk was increased among women who	used
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66. BY MR. HEGARTY: Q. The part of the abstract I read to you, though, was in regards to dose response, correct? A. (Reviews document.) Right, but they didn't take it yes, but they did not take into account times when the genital tract was open. They did not consider issues with respect to ovulation. They did not consider whether or not they had whether	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was used or as lifetime number of applications) for either 5 invasive or borderline tumors." 6 Did I read that correctly? 7 A. Yes, you did. 8 Q. Is that an accurate summary of their 9 evidence with regard to increasing with regard 10 to whether an association increased with the 11 increasing extent of use? 12 A. Yes, based on their data. Uh-huh. 13 Q. Please turn over to the "Discussion" 14 section on page 741. 15 A. Well, but if you also look in that	used
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66. BY MR. HEGARTY: Q. The part of the abstract I read to you, though, was in regards to dose response, correct? A. (Reviews document.) Right, but they didn't take it yes, but they did not take into account times when the genital tract was open. They did not consider issues with respect to ovulation. They did not consider whether or not they had whether exposures occurred before or after a tubal ligation or hysterectomy. Q. Please look at the "Conclusions"	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was used or as lifetime number of applications) for either 5 invasive or borderline tumors." 6 Did I read that correctly? 7 A. Yes, you did. 8 Q. Is that an accurate summary of their 9 evidence with regard to increasing with regard 10 to whether an association increased with the 11 increasing extent of use? 12 A. Yes, based on their data. Uh-huh. 13 Q. Please turn over to the "Discussion" 14 section on page 741. 15 A. Well, but if you also look in that 16 paragraph, risk was increased among women who 17 first reported the regular use of perineal dusting	used
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66. BY MR. HEGARTY: Q. The part of the abstract I read to you, though, was in regards to dose response, correct? A. (Reviews document.) Right, but they didn't take it yes, but they did not take into account times when the genital tract was open. They did not consider issues with respect to ovulation. They did not consider whether or not they had whether exposures occurred before or after a tubal ligation or hysterectomy. Q. Please look at the "Conclusions"	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was used or as lifetime number of applications) for either 5 invasive or borderline tumors." 6 Did I read that correctly? 7 A. Yes, you did. 8 Q. Is that an accurate summary of their 9 evidence with regard to increasing with regard 10 to whether an association increased with the 11 increasing extent of use? 12 A. Yes, based on their data. Uh-huh. 13 Q. Please turn over to the "Discussion" 14 section on page 741. 15 A. Well, but if you also look in that 16 paragraph, risk was increased among women who 17 first reported the regular use of perineal dusting 18 powders at age 30 years or older. Odds ratio for	used
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66. BY MR. HEGARTY: Q. The part of the abstract I read to you, though, was in regards to dose response, correct? A. (Reviews document.) Right, but they didn't take it yes, but they did not take into account times when the genital tract was open. They did not consider issues with respect to ovulation. They did not consider whether or not they had whether exposures occurred before or after a tubal ligation or hysterectomy. Q. Please look at the "Conclusions" section in the abstract on page 1.	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was used or as lifetime number of applications) for either 5 invasive or borderline tumors." 6 Did I read that correctly? 7 A. Yes, you did. 8 Q. Is that an accurate summary of their 9 evidence with regard to increasing with regard 10 to whether an association increased with the 11 increasing extent of use? 12 A. Yes, based on their data. Uh-huh. 13 Q. Please turn over to the "Discussion" 14 section on page 741. 15 A. Well, but if you also look in that 16 paragraph, risk was increased among women who 17 first reported the regular use of perineal dusting 18 powders at age 30 years or older. Odds ratio for 19 invasive borderline tumors of 1.69 on women who	used
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66. BY MR. HEGARTY: Q. The part of the abstract I read to you, though, was in regards to dose response, correct? A. (Reviews document.) Right, but they didn't take it yes, but they did not take into account times when the genital tract was open. They did not consider issues with respect to ovulation. They did not consider whether or not they had whether exposures occurred before or after a tubal ligation or hysterectomy. Q. Please look at the "Conclusions" section in the abstract on page 1. A. Uh-huh.	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was to the description of a powder (assessed as years in which powder was to the description of a powder (assessed as years in which powder was to the description of a powder with powder was to the description of a powder with regard to increasing of their of the with regard to increasing of their of the with regard to whether an association increased with the increasing extent of use? 12 A. Yes, based on their data. Uh-huh. 13 Q. Please turn over to the "Discussion" of the vection on page 741. 15 A. Well, but if you also look in that the paragraph, risk was increased among women who in the powders at age 30 years or older. Odds ratio for invasive borderline tumors of 1.69 on women who invasive	used
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66. BY MR. HEGARTY: Q. The part of the abstract I read to you, though, was in regards to dose response, correct? A. (Reviews document.) Right, but they didn't take it yes, but they did not take into account times when the genital tract was open. They did not consider issues with respect to ovulation. They did not consider whether or not they had whether exposures occurred before or after a tubal ligation or hysterectomy. Q. Please look at the "Conclusions" section in the abstract on page 1. A. Uh-huh. Q. The authors write, including	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was used or as lifetime number of applications) for either 5 invasive or borderline tumors." 6 Did I read that correctly? 7 A. Yes, you did. 8 Q. Is that an accurate summary of their 9 evidence with regard to increasing with regard 10 to whether an association increased with the 11 increasing extent of use? 12 A. Yes, based on their data. Uh-huh. 13 Q. Please turn over to the "Discussion" 14 section on page 741. 15 A. Well, but if you also look in that 16 paragraph, risk was increased among women who 17 first reported the regular use of perineal dusting 18 powders at age 30 years or older. Odds ratio for 19 invasive borderline tumors of 1.69 on women who 20 first regular use was in 1980 or later, and there 21 they also showed a very strong association with	used
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	tumors, those who used powder after bathing had a 1.27 excess risk after adjustment for, you know, the most important risk factors with a confidence interval of 0.97 to 1.66. BY MR. HEGARTY: Q. The part of the abstract I read to you, though, was in regards to dose response, correct? A. (Reviews document.) Right, but they didn't take it yes, but they did not take into account times when the genital tract was open. They did not consider issues with respect to ovulation. They did not consider whether or not they had whether exposures occurred before or after a tubal ligation or hysterectomy. Q. Please look at the "Conclusions" section in the abstract on page 1. A. Uh-huh. Q. The authors write, including Dr. Weiss, that:	1 ovarian cancer increased in association with 2 increasing extent of the use of perineal dusting 3 powder (assessed as years in which powder was used or as lifetime number of applications) for either 5 invasive or borderline tumors." 6 Did I read that correctly? 7 A. Yes, you did. 8 Q. Is that an accurate summary of their 9 evidence with regard to increasing with regard 10 to whether an association increased with the 11 increasing extent of use? 12 A. Yes, based on their data. Uh-huh. 13 Q. Please turn over to the "Discussion" 14 section on page 741. 15 A. Well, but if you also look in that 16 paragraph, risk was increased among women who 17 first reported the regular use of perineal dusting 18 powders at age 30 years or older. Odds ratio for 19 invasive borderline tumors of 1.69 on women who 20 first regular use was in 1980 or later, and there 21 they also showed a very strong association with 22 borderline ovarian tumors.	used

Page 338	Page 340
1 Q. Those statements you described do	1 to look at the whole paragraph.
2 not pertain to dose response, correct?	2 THE WITNESS: Yes. Yeah,
3 A. Well, not not in the way in which	3 yeah.
4 they did it, but it could indicate longer periods	4 (Reviews document.)
5 of time of exposure.	5 Okay. Could you repeat the
6 Q. Please look over to the "Discussion"	6 question?
7 section.	7 BY MR. HEGARTY:
8 A. Uh-huh.	8 Q. Sure.
9 Q. The first paragraph, the authors	9 The two statements or the statement
10 write:	10 I read beginning:
11 "A number of case-control studies of	11 "However, a non-causal
12 ovarian cancer, in addition to ours, have examined	12 interpretation."
13 the issue of genital powder exposure as a	13 A. Uh-huh.
14 potential risk factor. The validity of all of	14 Q. Are those accurate statements?
15 these studies, including ours, may be influenced	15 A. Well, no, not in terms of it's
16 by the level of non-response among cases and	16 it's sorry, Noel, but I'm not sure I agree with
17 controls, and by the potential for	17 focusing on the overall association, when in that
18 misclassification (differential and	18 same article they provide exposure assessments in
19 non-differential) of exposure status."	19 different ways and more appropriate ways. So I
20 Are those two accurate statements?	20 think that is a bit incomplete.
21 A. They're always possible.	21 And then when they talk about the
22 Q. Please turn over to the next page.	22 absence in most studies, including the current
23 A. But I think it's important to point	23 study, of the trend with increasing duration of
24 out that when you make a statement like that, you	24 exposure, they cite Langseth and they don't cite
Page 339	Page 341
1 should probably provide a little more information	1 the multiple studies mine in particular in
2 as to what those potential what potential	2 1992, 1999 as fact evidence.
3 examples might be.	3 So are we to make our decision on
4 Q. Please turn over to the next page.	4 causality based on one study? I don't believe so.
5 The first full paragraph beginning	5 We look at it in the package of all studies that
6 "In support of."	6 have been done because there are a lot of issues
7 A. Yeah.	7 that could be at play as to why one study seems to
8 Q. You see that paragraph?	8 be somewhat different from another.
9 A. Yes.	9 Q. I'm finished with that study.
10 Q. The second sentence says:	10 A. Okay.
11 "However, a non-causal	MR. HEGARTY: The next study I
12 interpretation may be consistent with the absence	want to refer to is one you also
13 of an overall association in the one cohort study	discussed in your expert report.
14 of the question, along with the absence in most	14 THE WITNESS: Uh-huh.
14 of the question, along with the absence in most15 studies (including the current study) of a trend	,
	14 THE WITNESS: Uh-huh.
15 studies (including the current study) of a trend 16 of increasing risk with increasing duration of 17 exposure."	14 THE WITNESS: Uh-huh. 15 MR. HEGARTY: The 2013 study
15 studies (including the current study) of a trend 16 of increasing risk with increasing duration of	14 THE WITNESS: Uh-huh. 15 MR. HEGARTY: The 2013 study 16 by Terry
15 studies (including the current study) of a trend 16 of increasing risk with increasing duration of 17 exposure."	14 THE WITNESS: Uh-huh. 15 MR. HEGARTY: The 2013 study 16 by Terry 17 THE WITNESS: Yes. The pooled
15 studies (including the current study) of a trend 16 of increasing risk with increasing duration of 17 exposure." 18 Do you agree with those statements?	14 THE WITNESS: Uh-huh. 15 MR. HEGARTY: The 2013 study 16 by Terry 17 THE WITNESS: Yes. The pooled 18 analysis, yes.
15 studies (including the current study) of a trend 16 of increasing risk with increasing duration of 17 exposure." 18 Do you agree with those statements? 19 MR. TISI: Again, why don't 20 you take a look at the whole paragraph. 21 I mean, he's just picking out sentences.	14 THE WITNESS: Uh-huh. 15 MR. HEGARTY: The 2013 study 16 by Terry 17 THE WITNESS: Yes. The pooled 18 analysis, yes. 19 MR. HEGARTY: which I 20 marked as Exhibit Number 23. 21 (Document marked for
15 studies (including the current study) of a trend 16 of increasing risk with increasing duration of 17 exposure." 18 Do you agree with those statements? 19 MR. TISI: Again, why don't 20 you take a look at the whole paragraph. 21 I mean, he's just picking out sentences. 22 THE WITNESS: I know. We're	14 THE WITNESS: Uh-huh. 15 MR. HEGARTY: The 2013 study 16 by Terry 17 THE WITNESS: Yes. The pooled 18 analysis, yes. 19 MR. HEGARTY: which I 20 marked as Exhibit Number 23. 21 (Document marked for 22 identification as Harlow Exhibit 23.)
15 studies (including the current study) of a trend 16 of increasing risk with increasing duration of 17 exposure." 18 Do you agree with those statements? 19 MR. TISI: Again, why don't 20 you take a look at the whole paragraph. 21 I mean, he's just picking out sentences.	14 THE WITNESS: Uh-huh. 15 MR. HEGARTY: The 2013 study 16 by Terry 17 THE WITNESS: Yes. The pooled 18 analysis, yes. 19 MR. HEGARTY: which I 20 marked as Exhibit Number 23. 21 (Document marked for

Page 342	Page 344
1 your expert report?	1 A. Am I in the right study? Hold on.
2 A. Yes. Uh-huh.	2 Q. Terry.
3 Q. This is a pooled study of	3 A. Yeah, 819 is just graphs. Oh, no,
4 case-control data; is that correct?	4 819. Yes, I'm sorry. Yeah. Left-hand column.
5 A. Yes.	5 Yes. Sorry.
6 Q. Please turn to page 820.	6 Q. They note that with regard to
7 A. Uh-huh.	7 restricting their analysis to genital powder
8 While you're getting that together,	8 applications that occurred before tubal ligation
9 could we go off the record?	9 or hysterectomy made no substantive difference in
MR. HEGARTY: Yes, we can.	10 the results, correct?
11 (Recess: 4:07 p.m	11 A. (Reviews document.)
12 4:21 p.m.)	12 "That occurred before tubal ligation
MR. HEGARTY: We are back on	13 or hysterectomy made no substantive difference in
14 the record.	14 the results."
15 BY MR. HEGARTY:	15 And I'd like to see that data for
16 Q. Doctor, I had asked you previously	16 studies that collected data on timing.
17 about presentations that you may have talked about	17 This was if you'll excuse me, I
18 talcum powder use and ovarian cancer.	18 just wanted to make sure.
Did you look at your CV to see if	19 Q. How long is that going to take you
20 you found a presentation where that might have	20 to look at that?
21 come up?	21 A. What?
22 A. Yes. Yes, I did.	22 Q. How long will it take you to look at
23 Q. What did you find?	23 that?
24 A. In 1998 I believe. It was open a	24 A. Not long but
Page 343	Page 345
1 second ago. But 1998 at the Dana Farber Cancer	1 (Reviews document.)
2 Institute on the epidemiology of ovarian cancer.	2 I'm sorry. I need to see where it
3 Q. Was that the last time you discussed	3 is.
4 risk factors for ovarian cancer?	4 (Reviews document.)
5 A. Yes.	5 I don't see it in the table.
6 Q. That is in a public forum?	6 Q. You need to look at it before you
7 A. That's correct.	7 can answer?
8 Q. Do you recall if you talked about	8 A. No, I can I can go ahead and
9 talcum powder use and ovarian cancer at that	9 answer.
10 presentation?	They they yes, that's what
11 A. I don't recall, but I'm sure that I	11 they that's what they said. I don't know
12 did because it was certainly one of them.	12 whether or not they looked at that with respect to
13 Yes, 1998, Dana Farber Cancer	13 taking it into account, taking into account
14 Institute.	14 applications. So Table 3.
15 Q. Please look at the Terry study and,	15 (Reviews document.)
16 rather than 820 where I directed you before, go to	16 Q. Do you need longer to look at it?
17 819 of that study.	17 Let's go off the record.
18 A. Uh-huh.	18 A. Yeah, let's go off the record. That
19 Q. Left-hand column, first paragraph.	19 will be fine. I'm okay with that. I just want to
20 MR. TISI: I can't find my	20 make sure that
21 copy of it. I apologize.	21 MR. TISI: I'm actually not.
22 THE WITNESS: 819?	22 THE WITNESS: Sorry.
23 BY MR. HEGARTY:	MR. TISI: I want you to stay
24 Q. Page 819.	on the record.

1	Page 346 MR. HEGARTY: We're off the	1	Page 348
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	record.	$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	1.32 in the highest in the highest level.
l			Q. The authors, though, in the
3	MR. TISI: No, we're on the	3	"Abstract" make the statement on page 1 that:
4	record.	4	"Among genital powder users, we
5	MR. HEGARTY: No, we're off		observed no significant trend in risk with
6	the record. Chris, come on. We've		increasing number of lifetime applications."
7	always done this. If somebody needs more	7	Do you see where I'm reading?
8	time, we've always gone off the record.	8	A. On the "Abstract."
9	(Recess: 4:25 p.m	9	Q. Isn't that the same thing as saying
10	4:26 p.m.)		they found no dose response?
11	MR. HEGARTY: We're back on	11	A. Well, they're again, they're
12	the record.		doing it based on statistical significance, and I
13	BY MR. HEGARTY:	13	disagree with that approach to make the
14	Q. I pointed you to the statement on no	14	interpretation.
15	difference in between in patients that had a tubal	15	All of the confidence intervals are
16	ligation or hysterectomy.	16	relatively narrow. All of them are at 1.0 or
17	That's what they found; is that	17	higher on the lower bound, and at the highest
18	correct?	18	quartile you see at minimum a 16 percent excessive
19	A. I'm sorry. Repeat the question.	19	risk, which is very consistent from anywhere 16
20	Q. The statement I read to you earlier	20	percent to 52 percent, which is very consistent
21	is an accurate statement, correct?	21	with those who are the highest exposed component
22	A. Oh. That "Restricting our exposure		of the population.
23	to genital powder applications that occurred	23	Q. Please turn to page 19 of your
	before tubal ligation or hysterectomy made no	24	report.
	Page 347		Page 349
1	substantive difference in the results"?	1	A. Page 19 of my report.
2	Q. Correct.	2	Q. In your section on biologic
3	That's a correct statement?	3	- '
4	A. Well, that's what they report.	4	Do you see that section?
5	Q. Did you make reference to that in	5	A. I do.
6	your report or comment on that statement in you	r 6	Q. You cite at that part of your report
	report?		a single study discussing talc and the ovaries of
8	A. I don't believe I did. However,		2019, study by McDonald, correct?
	there is some suggestion that talc use could be	9	A. Yes.
	inhaled and have a deleterious effect in some	10	MR. HEGARTY: I'm going to
	women who are still applying it after after	11	mark that as an exhibit.
	closure of the genital tract.	12	Let's go off the record real
13	So I suppose there's there's	13	quick.
_	possible explanations, but the findings are about		(Recess: 4:30 p.m
	the same and positive in both situations,	15	4:31 p.m.)
	according to the data.		BY MR. HEGARTY:
17	_	17	Q. As I asked you just before we took a
	Q. The Terry study also found no increasing trend with increasing dosage, correct?		· · · · · · · · · · · · · · · · · · ·
10	A. Actually, that's not true.		report a single study by McDonald from 2019,
	A. Actuany, mais not nuc.		correct?
19	If you look at Table 5 and you look	,,,,	
19 20	· · · · · · · · · · · · · · · · · · ·		
19 20 21	at the lower confidence interval, it goes from 1.0	21	A. Yes, that's correct.
19 20 21 22	at the lower confidence interval, it goes from 1.0 up to 1.16 and the upper confidence interval	21 22	A. Yes, that's correct. MR. HEGARTY: I'll mark that
19 20 21 22 23	at the lower confidence interval, it goes from 1.0	21 22	A. Yes, that's correct.

	Page 350		Page 352
1		1	MR. TISI: Do you mind me
2	`	2	looking over?
3	THE WITNESS: Uh-huh.	3	MR. HEGARTY: No. Please.
4	BY MR. HEGARTY:	4	BY MR. HEGARTY:
5	Q. This is the study you rely upon for	5	Q. 598.
6	biologic plausibility between talc use and ovarian	6	A. Yeah.
	cancer, correct?	7	Q. In the bottom left-hand corner, it
8	A. It's one of the studies, yes.	8	says:
9	Q. You state at the end of the	9	"Correlative SEM/EDX of the control
10	paragraph when discussing McDonald, that is, the	10	tissue blocks showed a total of four talc
11	end of your first paragraph under Section 4 on	11	particles across all patients: two in patient 2
12	page 19 that with regard to the patients in the	12	and two in patient 3."
13	study and talc particles just tell me when	13	Do you see where I'm reading?
14	you're there.	14	A. I do.
15	A. Yeah, I'm here.	15	Q. That shows that the McDonald study
16	Q. With regard to the control patients		found talc particles in two of the six control
17	in the study that none was found and then that no	17	patients, correct?
18	talc was found	18	A. Yes.
19	Let me restate that.	19	Q. So the statement that you made on
20	A. Yeah.		paragraph 19 under Section 4 that "None was found
21	Q. You make in the last statement of		in the negative exposure controls" is not
1	the first paragraph under Section 4, you make the		accurate, correct?
1	statement that "None" meaning none, no talc	23	A. (Reviews document.)
24	particles "were found in the negative exposure	24	Q. How much time do you need to review
	Page 351		Page 353
	controls," correct?	l .	the paper, Doctor?
2		2	A. (Reads document.)
3	•	3	I must have I must have
4			misquoted.
5	113	5	Q. So the McDonald paper actually shows
6			a finding of talc particles in women who had never
1	Exhibit 24, page 598.	l .	reported using talcum powder in their ovaries,
8	3 13		correct?
9		9	A. (Reviews document.)
10	ε	10	,
11 12	E	11	A. (Reviews document.)
13		12	Q. How much time do you need to review
13			the document?
15	, ,	14	
16		15	(Reviews document.)
10	•	16	Well, it appears that they were found in in both. Those with and without talc
17	wirk. Tie OAKTT. Tgave you two		or those with and without exposure to perineal
17	conies	10	
18	•		avnocura to tale
18 19	THE WITNESS: Oh, I'm sorry.	19	exposure to talc. Of the studies like this do show talc in
18 19 20	THE WITNESS: Oh, I'm sorry. MR. TISI: Did you? All	19 20	Q. If studies like this do show talc in
18 19 20 21	THE WITNESS: Oh, I'm sorry. MR. TISI: Did you? All right.	19 20 21	Q. If studies like this do show talc in the ovaries of women who had never used talcum
18 19 20 21 22	THE WITNESS: Oh, I'm sorry. MR. TISI: Did you? All right. MR. HEGARTY: I handed over	19 20 21 22	Q. If studies like this do show talc in the ovaries of women who had never used talcum powder, does that go against a clear finding of
18 19 20 21	THE WITNESS: Oh, I'm sorry. MR. TISI: Did you? All right. MR. HEGARTY: I handed over two copies.	19 20 21 22 23	Q. If studies like this do show talc in the ovaries of women who had never used talcum

	D 041		D 050
1	Page 354	1	Page 356
1	A. I don't think so. Not necessarily.	1 2	not said "none," and I appreciate you giving me a chance to take a look more
	Particularly given that	3	closely at the article.
3	(Reviews document.)	4	There was talc found in two of
4	Particularly given the fact that	5	
	women who have actually applied it to the genital	6	the six controls, but those two had
	area have applied it, and those who I believe to	7	undergone pelvic surgery 30 years before, and the authors suggest that the talc on
	be at increased risk have applied it regularly, and there have been there's substantial	8	
		9	the surgical gloves could have been responsible for that.
	evidence to suggest that the talc has some	10	*
	asbestiform, asbestos contamination.		And they specifically say that
11	(Reviews document.)	11	the six control cases supported the
12	Q. Are you finished with your answer?	12	contention that tale is rarely found in
13	A. I am. I am. I'm just checking to	13	surgically resected pelvic tissues from
	make sure that this is, in fact, the article that	14	patients with no prior perineal or body
	I cited.	15	use exposure.
16	I'm done with mine.	16	The four talc particles found
17	Q. Okay. We haven't agreed upon a lot	17	by the SEM/EDX were in only two patients.
	today, Dr. Harlow.	18	both of whom had undergone pelvic surgery
19	A. Yeah.	19	procedures more than 30 years ago. And
20	Q. But you do agree that your statement	20	given that history and timeline, the talc
	with regard to the McDonald study that "None was	21	could have been introduced from the
	found in the negative exposure controls" is	22	ambient environment.
	incorrect?	23	So I agree that I misspoke
24	MR. TISI: Objection. If you	24	when I said none of the controls, but
	Page 355		Page 357
$\frac{1}{2}$	need time to review the paper, feel free	1	clearly this would not provide evidence
2	to go off the record and we can do that.	2	against the biological plausibility.
3	THE WITNESS: I would like to	3	BY MR. HEGARTY:
4	go off the record. It's going to	4	Q. At the end of this section on
5	MR. HEGARTY: Okay. Let's go		biologic plausibility in your report I'm
6	off the record. Sure.		looking at the bottom of page 19.
7	THE WITNESS: take another	7	
8	short look.	8	Q. You make the statement that:
9	(Recess: 4:37 p.m	9	"Although the exact mechanism
10	4:44 p.m.)		exact pathogenic mechanism by which talc may incur
11	MR. HEGARTY: We are back on		carcinogenesis is unknown, plausible mechanisms
12	the record.		may involve inflammation."
13		13	Do you see where I'm reading?
14	Q. We took a break.	14	A. I do.
15	Doctor, I commented that you and I	15	Q. You don't cite in this part of your
	have not agreed on a lot of things here today, but		
	can we agree that your statement that "None was		
	found in the negative exposure controls" in		inflammation, correct?
	reference to the McDonald 2019 study is an	19	A. Well, in my in my review of talc
	inaccurate statement?		of the association in the 1994 review article, we
101	MR. TISI: Objection.	21	do talk about inflammation, and there are a number
21	min min in the control of the contro		
22	THE WITNESS: Yeah. I think		of of articles that have suggested that
	it's important to point out.	23	of of articles that have suggested that inflammation is a plausible mechanism by which tale could induce ovarian cancer, particularly

1	Page 358 when talc is embedded in the in the inclusion	1	Page 360 body of your report any studies that talk about
			talc and inflammation?
1	cysts after ovulation and basically remain there	$\frac{2}{3}$	
	7 1	-	, , , , , , , , , , , , , , , , , , ,
4	Q. Listen to my question, though, Doctor.		previous report, as I said before your discussion with counsel here.
l .			
6	In the body of your report for this	6	Q. As part of your work in preparing
7	case, you don't cite to any studies that comment		your report, did you do a comprehensive medica
	on talc and inflammation, correct?		literature search with regard to inflammation and
9	MR. TISI: Objection.		ovarian cancer?
10	Misstates. He says he relies on his own	10	A. No, I didn't. Again, I didn't need
11	studies.	1	to do that in order to come to the conclusion that
12	MR. HEGARTY: Please, don't		there was a biologically plausible mechanism by
13	answer for him, Chris.		which ovarian by which talc could influence
14	MR. TISI: No, I'm not		ovarian cancer.
15	answering for him.	15	Q. Is it your opinion in this case that
16	MR. HEGARTY: Come on. It's	1	inflammation is the cause of ovarian cancer?
17	not a proper objection and you know it.	17	MR. TISI: Objection.
18	MR. TISI: It is. It is	18	
19	because it's misleading.	19	state any one particular pathogenic
	BY MR. HEGARTY:	20	mechanism is responsible for the path
21	Q. You can answer, Doctor.	21	for the carcinogenic process. There are
22	MR. TISI: To the extent you	22	several that have been proposed.
23	rely on your prior studies, which are		BY MR. HEGARTY:
24	clearly outlined in your report, you	24	Q. Please turn to page 19 of your
	Page 359		Page 361
1	clearly incorporate, you're entitled to	1	report, if you're not there already.
2	that. Word piece is not appropriate.	2	A. I am there.
3	MR. HEGARTY: Chris, I think	3	Q. In the upper part of that page of
4	I'm going we're going to have an issue		your report, you make reference to a statement by
5	with the judge. We'll just swear you in.	5	the American Statistical Association, correct?
6	You just gave him an answer to give back	6	A. Yes.
7	to me.	7	Q. And that statement you make is in
8	MR. TISI: No, I didn't.	1	support of the statements you make in that
9	MR. HEGARTY: Yes, you did.	9	paragraph that:
10	MR. TISI: It's so unfair what	10	"A consensus is slowly building
11	you're doing.	11	among scientists that statistical significant
12	MR. HEGARTY: Well	12	5
13	MR. TISI: When he says	13	interpretation, and should be avoided."
14	•	14	Correct?
15	MR. HEGARTY: we'll let the	15	A. That's correct.
16	judge decide if that was unfair.	16	MR. HEGARTY: I'm going to
17	MR. TISI: When he says	17	mark as our next exhibit, Exhibit 25, a
18	when he says he incorporates by reference	18	document entitled "ASA President's Task
19	his own studies and his own studies	19	Force Statement on Statistical
20	discuss it.	20	Significance and Replicability."
21	MR. HEGARTY: We're not going	21	(Document marked for
100	to reach an agreement on this.	22	identification as Harlow Exhibit 25.)
22			
	BY MR. HEGARTY:	23	BY MR. HEGARTY:
		23 24	BY MR. HEGARTY: Q. Please excuse the highlighting.

D 262	D 264
Page 362 1 They copied my highlighting when they weren't	Page 364 1 statistical inference that may be useful to the
2 supposed to.	2 scientific community."
3 A. Uh-huh.	3 Did I read that correctly?
4 Q. Have you read this before right now?	4 A. Yes, you did.
5 A. I don't believe I have since this	5 Q. Do you disagree with that last
6 was not in the scientific literature, and my	6 statement that I just read?
7 reference is by Amrhein, Greenland, and McShane.	7 A. I've never disagreed that p-values
8 Q. I'm talking about the reference you	8 are not a tool in determining in determining a
9 make on page 19	9 strength of an association, but you don't need a
10 A. I understand.	10 p-value. You can look at the confidence intervals
11 Q of the American Statistical	11 to determine whether or not the confidence
12 Association.	12 interval includes or doesn't include 1.0 and, by
13 A. I understand, and it comes from	13 definition, that is essentially showing what the
14 oh. It is it is a quote that was stated in the	14 p-value might be.
15 article by Amrhein.	15 Q. Please look at the very last
16 One recent commentary in "Nature"	16 sentence on page 1.
17 and endorsed by 800 signatories stated this.	17 A. Yes.
18 Oh, and then you're talking about	18 Q. It reads:
19 the consensus statement from the American	19 "P-values are valid statistical
20 Statistical Association above.	20 measures that provide convenient conventions for
21 Q. Right. That's what I'm referring	21 communicating the uncertainty inherited
22 to.	22 inherent in quantitative results. Indeed,
23 A. "A p-value, or statistical	23 p-values and significance tests are among the most
24 significance, does not measure." Yes.	24 studied and best understood statistical procedures
Page 363	Page 365
1 Q. Please look at Exhibit Number 25.	1 in the statistics literature."
2 A. I'm looking.	2 Do you agree with those two
3 Q. It says in the first full	3 statements?
4 paragraph	4 A. Sure.
5 A. On what page?	5 Q. Carrying on in that paragraph, it
6 Q. First paragraph.	6 goes on to say:
7 A. Yes.	7 "They are important tools that have
8 Q. First page.	8 advanced science through their proper
9 A. Yes.	9 application."
10 Q. Second sentence.	Do you agree with that statement?
11 "In 2019, the president of the	11 A. "Through their proper application,"
12 American Statistical Association established a	12 yes.
13 task force to address concerns a 2019 editorial in	13 Q. Please look at the very last line in
14 'The American Statistician' (an ASA journal) might	14 the middle of that page that begins "In summary."
15 be mistakenly interpreted as official ASA policy.	MR. TISI: Feel free to take a
16 (The editorial recommended eliminating the use of	look at the document.
17 'p less than .05' and 'statistically significant'	17 THE WITNESS: Yeah. I'm just
18 in statistical analysis.) This document is the	not seeing where it says "In summary."
19 statement of the task force, and the ASA invited	19 BY MR. HEGARTY:
20 us to publicize it. Its purpose is two-fold: to	Q. Right in the middle. Right there.
21 clarify that the use of p-values and significance	MR. TISI: I know, but feel
22 testing, properly applied and interpreted, are	free to look at it if you have not seen
100 1 . 1 . 1 . 1 . 1 . 1 . 1	1.7.4 1t
23 important tools that should not be abandoned and 24 to briefly set out some principles of sound	23 it.24 THE WITNESS: Oh, yeah, I can

	P. 266		D 060
1	Page 366 see.	1	Page 368 in front of me. But probably like 0.8 or 0.9 to
2	MR. TISI: If you have not		about 1.3 or 1.4.
3	seen this recently, please take a look at	3	If you assume that that is an
4	it.	4	
5			multiple, multiple case-control studies have all
6	Q. It reads:		shown an association of about 1.3, to me that
7	"In summary, p-values and	7	seems fairly comparable.
8	· · · · · · · · · · · · · · · · · · ·	8	So that's the way I would interpret
	interpreted, increase the rigor of the conclusions	"	it, and that's the way both Dr. Rothman and I
	drawn from data. Analyzing data and summarizing	1	interpreted that, and we tried to explain that
	results are often more complex than is sometimes		rationale.
	popularly conveyed. Although all scientific	12	Q. We talked somewhat today about the
	methods have limitations, the proper application	13	O'Brien 2020 study, and you talk about it in you
	of statistical methods is essential for		expert report, correct?
15	interpreting the results of data analyses and	15	A. That's correct.
	enhancing the replicability of scientific	16	MR. HEGARTY: I've marked as
	results."	17	
18	Do you agree with all those	18	(Document marked for
19	statements?	19	identification as Harlow Exhibit 26.)
20	A. I do, but that does not talk about	20	THE WITNESS: Yes.
21	the use of statistical significance for making	21	BY MR. HEGARTY:
22	inferences about causation. It is one of many	22	Q. You have read that study; is that
23	tools that we use to assess the precision of risk	23	correct?
24	estimates.	24	A. Not only have I read it, I've
	Page 367		Page 369
1	Q. You make the statement in your	1	written a letter to the editor.
2	report that you found that there is reasonable	2	Q. Which we'll talk about as well here
3	consistency between case-control and cohort	3	in a moment.
4	studies.	4	Please turn over to page 56 of this
5	What did you mean by "reasonable	5	paper. Under the "Discussion" section.
6	consistency"?	6	A. Uh-huh.
7	A. Under the assumption that based on	7	0 751 0 1
0		'	Q. The very first line reads:
	the limitations of the cohort study in terms of	8	"In this pooled of analysis of 4
9	the way in which they assessed exposure, we can	8	"In this pooled of analysis of 4 large U.S. cohorts, there was no statistically
9	the way in which they assessed exposure, we can expect that those overall risk estimates are	8	"In this pooled of analysis of 4 large U.S. cohorts, there was no statistically significant association between self-reported use
9 10 11	the way in which they assessed exposure, we can expect that those overall risk estimates are attenuated because of that.	8 9 10 11	"In this pooled of analysis of 4 large U.S. cohorts, there was no statistically significant association between self-reported use of powder in the genital area and risk of ovarian
9 10 11 12	the way in which they assessed exposure, we can expect that those overall risk estimates are attenuated because of that. Thus, given that there is an	8 9 10 11 12	"In this pooled of analysis of 4 large U.S. cohorts, there was no statistically significant association between self-reported use of powder in the genital area and risk of ovarian cancer."
9 10 11 12 13	the way in which they assessed exposure, we can expect that those overall risk estimates are attenuated because of that. Thus, given that there is an attenuation of the cohort study estimates in the	8 9 10 11 12 13	"In this pooled of analysis of 4 large U.S. cohorts, there was no statistically significant association between self-reported use of powder in the genital area and risk of ovarian cancer." That's a correct statement, true?
9 10 11 12 13 14	the way in which they assessed exposure, we can expect that those overall risk estimates are attenuated because of that. Thus, given that there is an attenuation of the cohort study estimates in the one cohort study I believe to be the best in terms	8 9 10 11 12 13 14	"In this pooled of analysis of 4 large U.S. cohorts, there was no statistically significant association between self-reported use of powder in the genital area and risk of ovarian cancer." That's a correct statement, true? A. Well, I believe that I took issue
9 10 11 12 13 14 15	the way in which they assessed exposure, we can expect that those overall risk estimates are attenuated because of that. Thus, given that there is an attenuation of the cohort study estimates in the one cohort study I believe to be the best in terms of approximating the true risk, which is the	8 9 10 11 12 13 14 15	"In this pooled of analysis of 4 large U.S. cohorts, there was no statistically significant association between self-reported use of powder in the genital area and risk of ovarian cancer." That's a correct statement, true? A. Well, I believe that I took issue with that particular statement because other
9 10 11 12 13 14 15 16	the way in which they assessed exposure, we can expect that those overall risk estimates are attenuated because of that. Thus, given that there is an attenuation of the cohort study estimates in the one cohort study I believe to be the best in terms of approximating the true risk, which is the Nurses' Health Study, I see that I see that the	8 9 10 11 12 13 14 15 16	"In this pooled of analysis of 4 large U.S. cohorts, there was no statistically significant association between self-reported use of powder in the genital area and risk of ovarian cancer." That's a correct statement, true? A. Well, I believe that I took issue with that particular statement because other findings in this particular paper showed a
9 10 11 12 13 14 15 16 17	the way in which they assessed exposure, we can expect that those overall risk estimates are attenuated because of that. Thus, given that there is an attenuation of the cohort study estimates in the one cohort study I believe to be the best in terms of approximating the true risk, which is the Nurses' Health Study, I see that I see that the association on all not all that different.	8 9 10 11 12 13 14 15 16 17	"In this pooled of analysis of 4 large U.S. cohorts, there was no statistically significant association between self-reported use of powder in the genital area and risk of ovarian cancer." That's a correct statement, true? A. Well, I believe that I took issue with that particular statement because other findings in this particular paper showed a different association in those with patent genital
9 10 11 12 13 14 15 16 17 18	the way in which they assessed exposure, we can expect that those overall risk estimates are attenuated because of that. Thus, given that there is an attenuation of the cohort study estimates in the one cohort study I believe to be the best in terms of approximating the true risk, which is the Nurses' Health Study, I see that I see that the association on all not all that different. Even if you take the likely	8 9 10 11 12 13 14 15 16 17 18	"In this pooled of analysis of 4 large U.S. cohorts, there was no statistically significant association between self-reported use of powder in the genital area and risk of ovarian cancer." That's a correct statement, true? A. Well, I believe that I took issue with that particular statement because other findings in this particular paper showed a different association in those with patent genital tracts.
9 10 11 12 13 14 15 16 17 18	the way in which they assessed exposure, we can expect that those overall risk estimates are attenuated because of that. Thus, given that there is an attenuation of the cohort study estimates in the one cohort study I believe to be the best in terms of approximating the true risk, which is the Nurses' Health Study, I see that I see that the association on all not all that different. Even if you take the likely attenuated association of 1.09, which you continue	8 9 10 11 12 13 14 15 16 17 18	"In this pooled of analysis of 4 large U.S. cohorts, there was no statistically significant association between self-reported use of powder in the genital area and risk of ovarian cancer." That's a correct statement, true? A. Well, I believe that I took issue with that particular statement because other findings in this particular paper showed a different association in those with patent genital tracts. Q. The next line says:
9 10 11 12 13 14 15 16 17 18 19 20	the way in which they assessed exposure, we can expect that those overall risk estimates are attenuated because of that. Thus, given that there is an attenuation of the cohort study estimates in the one cohort study I believe to be the best in terms of approximating the true risk, which is the Nurses' Health Study, I see that I see that the association on all not all that different. Even if you take the likely attenuated association of 1.09, which you continue to refer to as the overall association, even	8 9 10 11 12 13 14 15 16 17 18 19 20	"In this pooled of analysis of 4 large U.S. cohorts, there was no statistically significant association between self-reported use of powder in the genital area and risk of ovarian cancer." That's a correct statement, true? A. Well, I believe that I took issue with that particular statement because other findings in this particular paper showed a different association in those with patent genital tracts. Q. The next line says: "There were no clear dose-response
9 10 11 12 13 14 15 16 17 18 19 20 21	the way in which they assessed exposure, we can expect that those overall risk estimates are attenuated because of that. Thus, given that there is an attenuation of the cohort study estimates in the one cohort study I believe to be the best in terms of approximating the true risk, which is the Nurses' Health Study, I see that I see that the association on all not all that different. Even if you take the likely attenuated association of 1.09, which you continue to refer to as the overall association, even though in further analyses in that paper it's	8 9 10 11 12 13 14 15 16 17 18 19 20 21	"In this pooled of analysis of 4 large U.S. cohorts, there was no statistically significant association between self-reported use of powder in the genital area and risk of ovarian cancer." That's a correct statement, true? A. Well, I believe that I took issue with that particular statement because other findings in this particular paper showed a different association in those with patent genital tracts. Q. The next line says: "There were no clear dose-response transfer for duration and frequency of powder use
9 10 11 12 13 14 15 16 17 18 19 20 21 22	the way in which they assessed exposure, we can expect that those overall risk estimates are attenuated because of that. Thus, given that there is an attenuation of the cohort study estimates in the one cohort study I believe to be the best in terms of approximating the true risk, which is the Nurses' Health Study, I see that I see that the association on all not all that different. Even if you take the likely attenuated association of 1.09, which you continue to refer to as the overall association, even though in further analyses in that paper it's substantially higher, it's not unreasonable and	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	"In this pooled of analysis of 4 large U.S. cohorts, there was no statistically significant association between self-reported use of powder in the genital area and risk of ovarian cancer." That's a correct statement, true? A. Well, I believe that I took issue with that particular statement because other findings in this particular paper showed a different association in those with patent genital tracts. Q. The next line says: "There were no clear dose-response transfer for duration and frequency of powder use in the genital area in relation to ovarian cancer
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	the way in which they assessed exposure, we can expect that those overall risk estimates are attenuated because of that. Thus, given that there is an attenuation of the cohort study estimates in the one cohort study I believe to be the best in terms of approximating the true risk, which is the Nurses' Health Study, I see that I see that the association on all not all that different. Even if you take the likely attenuated association of 1.09, which you continue to refer to as the overall association, even though in further analyses in that paper it's	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	"In this pooled of analysis of 4 large U.S. cohorts, there was no statistically significant association between self-reported use of powder in the genital area and risk of ovarian cancer." That's a correct statement, true? A. Well, I believe that I took issue with that particular statement because other findings in this particular paper showed a different association in those with patent genital tracts. Q. The next line says: "There were no clear dose-response transfer for duration and frequency of powder use

	P 270		P 272
1	Page 370 statements, correct?	1	Page 372 a patent open genital tract are going to be at
$\frac{1}{2}$	A. Those that's what they said, but,	1	lower risk if not null risk for for this
3	again, as I pointed out in the report and even in	$\frac{2}{3}$	association.
	my letter to the editor, exposure assessment in	4	Q. Dr. Harlow, statistically, there was
	two of these three I mean, really all of them,	5	no difference between women with patent and
	but particularly in two of the three were not	6	without patent tubes, correct?
	were were incomplete in terms of being able	7	MR. TISI: Objection. Asked
	to truly obtain the kind of exposure assessment	8	and answered.
	that we're actually able to do in case-control	9	THE WITNESS: Well, no. I'm
	studies.	10	sorry.
11	And the issue well, I'll just	11	MR. TISI: You got to let me
12	stop there. Go ahead and ask another question.	12	object.
13	Q. As you mentioned just a moment ago,	13	THE WITNESS: Sorry.
14	you do make reference to the study's findings with	14	MR. TISI: Objection. Asked
	regard to the data as to women with patent genital	15	and answered.
16	tracts, correct?	16	You may answer.
17	A. Yes.	17	THE WITNESS: Sorry.
18	Q. As the authors note, though	18	MR. TISI: No, that's okay.
19	A. Uh-huh.	19	THE WITNESS: Just because
20	Q they found no statistical	20	there the difference between 1.0 1.0
21	difference between in the data between women	21	with a confidence interval with a with
22	with patent tubes and women who did not have	22	a confidence interval of .86 to 1.15,
23	patent tubes, correct?	23	which is almost directly, directly,
24	A. And where do they specifically say	24	estimated as null with a hazard of 0.99,
	Page 371		Page 373
1	that?	1	to have to say that that is statistically
2	Q. Please look at the abstract.	2	different from a hazard ratio of 1.13
3	A. Well, I'm looking at on page 54	3	with a confidence interval of 1.01 to
4	where they say in the second column:	4	1.26 would does it make sense to then
5	"When restricted to women with	5	say, oh, because they're not
	patent reproductive tracts at baseline, the hazard	6	statistically different, then we don't
	ratio was 1.13 and the estimated	7	believe then we should just ignore
8	covariate-adjusted risk difference was 0.15.	8	that association that we see in women
		_	2.1
	Among women without patent reproductive tracts,	9	with patent genital tracts.
10	the estimated hazard ratio was 0.99."	10	It is ludicrous to apply a
10 11	the estimated hazard ratio was 0.99." Q. Then they go on to say:	10 11	It is ludicrous to apply a statistical test in this situation to
10 11 12	the estimated hazard ratio was 0.99." Q. Then they go on to say: "And the P value for heterogeneity	10 11 12	It is ludicrous to apply a statistical test in this situation to diminish or ignore an association, in my
10 11 12 13	the estimated hazard ratio was 0.99." Q. Then they go on to say: "And the P value for heterogeneity comparing the results for women with patency	10 11 12 13	It is ludicrous to apply a statistical test in this situation to diminish or ignore an association, in my view.
10 11 12 13 14	the estimated hazard ratio was 0.99." Q. Then they go on to say: "And the P value for heterogeneity comparing the results for women with patency versus without was .15."	10 11 12 13 14	It is ludicrous to apply a statistical test in this situation to diminish or ignore an association, in my view. MR. HEGARTY: Let me show you
10 11 12 13 14 15	the estimated hazard ratio was 0.99." Q. Then they go on to say: "And the P value for heterogeneity comparing the results for women with patency versus without was .15." Correct?	10 11 12 13 14 15	It is ludicrous to apply a statistical test in this situation to diminish or ignore an association, in my view. MR. HEGARTY: Let me show you what I've marked as Exhibit Number 27.
10 11 12 13 14 15 16	the estimated hazard ratio was 0.99." Q. Then they go on to say: "And the P value for heterogeneity comparing the results for women with patency versus without was .15." Correct? A. That's what they say, but one	10 11 12 13 14 15 16	It is ludicrous to apply a statistical test in this situation to diminish or ignore an association, in my view. MR. HEGARTY: Let me show you what I've marked as Exhibit Number 27. (Document marked for
10 11 12 13 14 15 16 17	the estimated hazard ratio was 0.99." Q. Then they go on to say: "And the P value for heterogeneity comparing the results for women with patency versus without was .15." Correct? A. That's what they say, but one doesn't need to do a statistical test of	10 11 12 13 14 15 16 17	It is ludicrous to apply a statistical test in this situation to diminish or ignore an association, in my view. MR. HEGARTY: Let me show you what I've marked as Exhibit Number 27. (Document marked for identification as Harlow Exhibit 27.)
10 11 12 13 14 15 16 17 18	the estimated hazard ratio was 0.99." Q. Then they go on to say: "And the P value for heterogeneity comparing the results for women with patency versus without was .15." Correct? A. That's what they say, but one doesn't need to do a statistical test of differences to recognize that the association	10 11 12 13 14 15 16 17 18	It is ludicrous to apply a statistical test in this situation to diminish or ignore an association, in my view. MR. HEGARTY: Let me show you what I've marked as Exhibit Number 27. (Document marked for identification as Harlow Exhibit 27.) BY MR. HEGARTY:
10 11 12 13 14 15 16 17 18	the estimated hazard ratio was 0.99." Q. Then they go on to say: "And the P value for heterogeneity comparing the results for women with patency versus without was .15." Correct? A. That's what they say, but one doesn't need to do a statistical test of differences to recognize that the association seems to be much strongly observed in those with a	10 11 12 13 14 15 16 17	It is ludicrous to apply a statistical test in this situation to diminish or ignore an association, in my view. MR. HEGARTY: Let me show you what I've marked as Exhibit Number 27. (Document marked for identification as Harlow Exhibit 27.)
10 11 12 13 14 15 16 17 18	the estimated hazard ratio was 0.99." Q. Then they go on to say: "And the P value for heterogeneity comparing the results for women with patency versus without was .15." Correct? A. That's what they say, but one doesn't need to do a statistical test of differences to recognize that the association	10 11 12 13 14 15 16 17 18 19	It is ludicrous to apply a statistical test in this situation to diminish or ignore an association, in my view. MR. HEGARTY: Let me show you what I've marked as Exhibit Number 27. (Document marked for identification as Harlow Exhibit 27.) BY MR. HEGARTY: Q. Exhibit Number 27 is an editorial A. Yes.
10 11 12 13 14 15 16 17 18 19 20 21	the estimated hazard ratio was 0.99." Q. Then they go on to say: "And the P value for heterogeneity comparing the results for women with patency versus without was .15." Correct? A. That's what they say, but one doesn't need to do a statistical test of differences to recognize that the association seems to be much strongly observed in those with a patent patent tract. And as I believe Dr. Rothman and	10 11 12 13 14 15 16 17 18 19 20	It is ludicrous to apply a statistical test in this situation to diminish or ignore an association, in my view. MR. HEGARTY: Let me show you what I've marked as Exhibit Number 27. (Document marked for identification as Harlow Exhibit 27.) BY MR. HEGARTY: Q. Exhibit Number 27 is an editorial
10 11 12 13 14 15 16 17 18 19 20 21 22	the estimated hazard ratio was 0.99." Q. Then they go on to say: "And the P value for heterogeneity comparing the results for women with patency versus without was .15." Correct? A. That's what they say, but one doesn't need to do a statistical test of differences to recognize that the association seems to be much strongly observed in those with a patent patent tract.	10 11 12 13 14 15 16 17 18 19 20 21	It is ludicrous to apply a statistical test in this situation to diminish or ignore an association, in my view. MR. HEGARTY: Let me show you what I've marked as Exhibit Number 27. (Document marked for identification as Harlow Exhibit 27.) BY MR. HEGARTY: Q. Exhibit Number 27 is an editorial A. Yes. Q that was written
10 11 12 13 14 15 16 17 18 19 20 21 22 23	the estimated hazard ratio was 0.99." Q. Then they go on to say: "And the P value for heterogeneity comparing the results for women with patency versus without was .15." Correct? A. That's what they say, but one doesn't need to do a statistical test of differences to recognize that the association seems to be much strongly observed in those with a patent patent tract. And as I believe Dr. Rothman and Murray and I commented in our letter to the editor	10 11 12 13 14 15 16 17 18 19 20 21 22 23	It is ludicrous to apply a statistical test in this situation to diminish or ignore an association, in my view. MR. HEGARTY: Let me show you what I've marked as Exhibit Number 27. (Document marked for identification as Harlow Exhibit 27.) BY MR. HEGARTY: Q. Exhibit Number 27 is an editorial A. Yes. Q that was written A. Yeah.

Page 374	Page 376
1 Have you read this before today?	1 Q. She's talking about you, right?
2 A. I have.	2 MR. TISI: Objection. Come
3 Q. Do you know either of these two	3 on.
4 doctors?	4 THE WITNESS: What do you
5 A. I don't know them.	5 mean she's talking about me?
6 Q. Please turn over to page 30.	6 BY MR. HEGARTY:
7 A. Uh-huh.	7 Q. Well, she
8 Q. Towards the bottom of the left-hand	8 MR. TISI: Are you suggesting
9 column.	9 with all his background? Honestly, that
10 A. Uh-huh.	10 is insulting.
11 Q. Beginning with "The fact that."	MR. HEGARTY: Please. Please.
Do you see where I'm reading?	MR. TISI: Do not insult my
13 A. Is it in the left-hand column?	13 witness ever.
14 Q. Left-hand column.	14 MR. HEGARTY: Please. Chris,
15 A. Hold on.	15 Make an objection. Make an objection.
16 Q. Right here. Very bottom paragraph.	16 MR. TISI: You are suggesting
17 A. In fact.	he's epidemiologically unsophisticated?
18 Q. "The fact that." That's the	18 That's beneath you.
19 beginning of the sentence.	19 MR. HEGARTY: I asked if she
20 A. Oh, got it. Thank you.	was talking about you.
21 Q. It reads:	21 MR. TISI: Oh, you think so?
22 "The fact that there was there	22 BY MR. HEGARTY:
23 are no significant differences in the HRs in the	23 Q. You can answer.
24 patent (HR, 1.13 [95% confidence interval, 1.01 to	24 A. Well, first of all
	,
Page 375 1 1.26]) and nonpatent subgroups (HR, .99 [95%	Page 377 MR. TISI: Ask her about the
2 confidence interval, 0.86 to 1.15]; P value for	2 statement.
3 heterogeneity comparing these subgroups of .15)	3 BY MR. HEGARTY:
4 confirms the overall conclusion that there is no	4 Q. You can answer the question.
5 demonstrable statistically significant association	5 MR. TISI: Ask her about
6 between use of powder in the genital area and	6 ask him about the statement.
7 ovarian cancer risk."	7 MR. HEGARTY: Are you
8 First of all, did I read that	8 instructing him not to answer my
9 correctly?	9 question?
10 A. You read what was written there,	10 MR. TISI: I'm telling you to
11 yes, correctly.	11 ask a nonridiculous question.
12 Q. Carrying over to the next paragraph	12 MR. HEGARTY: I'm not going to
13 from the bottom.	listen to what you tell me, Chris.
14 A. Yeah.	14 Please be quiet and let him answer the
15 Q. "The subgroup analysis suggesting	15 question.
16 that women with intact reproductive tracts who	16 MR. TISI: Don't ever do that
17 used powder in the perineal area developed ovarian	to one of my witnesses again.
18 cancer more frequently than nonusers is below the	18 MR. HEGARTY: I'm not
19 effect size that epidemiologists generally	19 listening to you what you say. My
20 consider important and should not be selectively	20 question is appropriate.
21 highlighted by the statistically unsophisticated	21 MR. TISI: You better listen.
22 reader as evidence of a relationship."	22 BY MR. HEGARTY:
23 Did I read that correctly?	23 Q. Was that statement talking about
24 A. You did read it correctly.	24 your what you just told me about why you reject
21 11. Tou did read it correctly.	2. Jour what you just told life about willy you reject

	Page 378		Page 380
1	statistical significance between the patent and	1	Who is the primary, if there was
2	nonpatent groups in this study?	2	one, author of this document, of this letter to
3	A. First of all, they couldn't be	3	the editor?
4	talking about me because I wrote my letter to the	4	A. Well, I was the first author, but I
5	editor about this after this commentary had been	5	it was a somebody had to be first. It was a
6	written. So I don't know how they could possibl	y 6	collaboration between the three of us.
7	be directing this comment to me.	7	I was the one who initiated this
8	Q. Okay. Is this not addressing the	8	collaboration in response to this.
9	issue you and I have been talking about about	9	Q. At the time that you wrote this
10	statistical significance between the patent and	10	letter to the editor
11	nonpatent tubes to patients?	11	A. Yes.
12	A. It is, and I don't know who this	12	Q you had been serving as a
13	person is, but I don't see that they have a	13	consultant to plaintiffs' lawyers in cases
14	doctoral degree in epidemiology. And I don't	14	involving talcum powder use and ovarian cancer
15	believe that that kind that to me is what the	15	correct?
16	American Statistical Association was saying in	16	MR. TISI: Objection.
17	terms of inappropriately using statistical	17	THE WITNESS: No, that's not
18	significance to make clinically relevant	18	true.
19	decisions.	19	I told you, I believe, earlier
20	So in my field, we would not make	20	that I had stopped doing that as of 2017.
21	that kind of a statement that would, in my view,	21	This was written in 2020.
22	minimize a potential risk of something that has	22	BY MR. HEGARTY:
23	been shown to possibly impact 10 percent of the	23	Q. Please look at the conflict of
24	incidence of ovarian cancer.	24	interest disclosure
	Page 379		Page 381
1	So I'm sorry. That's that's an	1	A. Yes.
2	inappropriate inappropriate comment.	2	Q in this document.
3	MR. HEGARTY: You mentioned	3	A. Yes.
4	your commentary and I marked your	4	Q. It reads:
5	commentary as Exhibit Number 28.	5	"Dr. Harlow reported publishing
6	(Document marked for	6	research and serving as a consultant on the topic
7	identification as Harlow Exhibit 28.)	7	of talc and ovarian cancer risk."
8	THE WITNESS: My letter to	8	Did I read that correctly?
9	the editor?	9	A. That's correct, but I was not at the
10	BY MR. HEGARTY:	10	time serving as a consultant. I was I was
11	Q. Sorry. I misspoke.	11	doing the appropriate thing and letting the
12	A. No worries.	12	readership know that I had been a consultant at
13	Q. Your letter to the editor, which		some point, but I was not when I wrote this lette
14	happens to be under the "Comment & Response"		to the editor.
	section, correct?	15	Q. Was your intent by that statement to
16	A. Yes.	16	refer back to the consulting you and I talked
17	Q. With regard to the letter to the		about with regard to the Chakalos case and other
18			cases?
19	A. Yes.	19	A. My intent was to be forthcoming in
20	Q your letter to the editor begins	20	letting the readership know that I had received
21			some consulting arrangements in the past around
22	A. Yes, that's correct.		this.
23	Q. The letter to the editor is from	23	Q. You did not report to the reader on
24	three authors.	24	whose side you had consulted
			-

	Page 382		Page 38
1	A. I did	1	consultant with regard to talc and ovarian cancer?
2	Q with regard to talc and ovarian	2	MR. TISI: Objection. Asked
3	cancer, correct?	3	and answered.
4	A. I did not.	4	THE WITNESS: I didn't feel
5	Q. Do you think it's important let	5	it had any influence or bearing on my
6	me ask a different way.	6	on my conclusions here and, as I just
7	Do you not think it's important for	7	indicated before, this is a joint letter
8	the reader to know whether you had been a	8	between the three of us. And even if I
	consultant for plaintiffs' lawyers who are	9	was trying to bias in one direction, it
	bringing lawsuits involving talcum powder use	10	would never have been approved by my
	versus Johnson & Johnson who's defending lawsuits	11	coauthors.
	involving talcum powder use?	12	BY MR. HEGARTY:
13	A. I was not an expert. I was not	13	Q. If you were to write this letter
	doing any expert testimony.		today, would you identify in your conflict of
15	I was merely being a consultant and		interest disclosure that you're a
	evaluating scientific literature. It had no	1	consultant/expert testifying for plaintiffs in
	bearing on my interpretation.		cases involving talcum powder use and ovarian
18	And all three of my coauthors and I	1	cancer?
	have again, I had no idea what Dr. Rothman had	19	MR. TISI: Objection.
	or had not done. When I wrote this, I did not	20	THE WITNESS: May I answer
		$\frac{20}{21}$	•
	know about his report in 2000. And to my	21 22	the question?
	knowledge, Dr. Murray has not been involved in any	1	MR. TISI: Sure.
	of this.	23	THE WITNESS: Yes, I would.
24	This was a collaborative letter that	24	Yes, I would. I'm not sure I would be
	Page 383		Page 38
	we wrote, and I could never have influenced my	1	comfortable in a position doing that
	colleagues one way or another because of any kind	2	simply because of the situation that I'm
	of past consulting that I've done.	3	in right now.
4	Q. You don't disclose a prior	4	BY MR. HEGARTY:
	relationship in a conflict of interest disclosure	5	Q. Please look at Drs. O'Brien,
6	only if you believe it is biasing your statements	6	Sandler, and Wentzensen's response letter at the
7	or your opinions that you are writing, correct?	7	bottom of page 2096 to 2097.
8	MR. TISI: Objection.	8	You've read that before today,
9	THE WITNESS: I'm sorry. Can	9	correct?
10	you repeat that question?	10	A. Oh. Oh, Dr. O'Brien's response.
11	BY MR. HEGARTY:	11	Q. Yes, or reply.
12	Q. Sure.	12	A. Yes. Yes, yes, yes. I'm sorry.
13	You don't only identify a conflict	13	Yes. Uh-huh.
14	of interest when you believe you are presenting	14	Q. Please look at the bottom of page
	biased statements in a publication, correct?	15	2096 in the right-hand column, second paragraph.
	,,	1.	Dr. O'Brien and her coauthors write:
15	•	16	
15 16	-	16	"Conversely, empirical evidence
15 16 17	A. I anytime I would be would	17	"Conversely, empirical evidence supports that recall bias is present in
15 16 17 18	A. I anytime I would be would write anything around the talc and ovarian cancer beyond what I had already published, knowing that	17 18	supports that recall bias is present in
15 16 17 18 19	A. I anytime I would be would write anything around the talc and ovarian cancer beyond what I had already published, knowing that I had spent a period of time as a consultant, it	17 18 19	supports that recall bias is present in retrospective studies."
15 16 17 18 19 20	A. I anytime I would be would write anything around the talc and ovarian cancer beyond what I had already published, knowing that I had spent a period of time as a consultant, it would have been inappropriate for me not to have	17 18 19 20	supports that recall bias is present in retrospective studies." That's what Dr. O'Brien wrote,
15 16 17 18 19 20 21	A. I anytime I would be would write anything around the talc and ovarian cancer beyond what I had already published, knowing that I had spent a period of time as a consultant, it would have been inappropriate for me not to have indicated that disclosure, and so that's what I	17 18 19 20 21	supports that recall bias is present in retrospective studies." That's what Dr. O'Brien wrote, correct?
15 16 17 18 19 20 21	A. I anytime I would be would write anything around the talc and ovarian cancer beyond what I had already published, knowing that I had spent a period of time as a consultant, it would have been inappropriate for me not to have	17 18 19 20 21 22	supports that recall bias is present in retrospective studies." That's what Dr. O'Brien wrote,

3

Page 388

Page 389

Document 33008-56 PageID: 211311

Page 386

1 Q. But without regard to who she's 2 responding to, that's what she wrote, correct?

A. She did write that.

But as you note in my report, there
are a number of -- of citations where I indicated
that recall bias has minimal to little impact on
estimates.

- 8 Q. So you disagree with that statement?
- 9 A. I don't disagree that there can be 10 recall bias in retrospective studies. I believe
- 11 I've been very clear that recall bias in those who
- 12 are at the highest level of exposure is unlikely
- 13 to explain the associations that we've observed.

 14 O The pext statement by Dr. O'Brien
- 14 Q. The next statement by Dr. O'Brien 15 and others says:

16 "While true never users are unlikely 16 17 to report daily use, some users may fail to report 17

- 18 use and others may misreport frequency and
- 19 duration of use or type of product used. If
- 20 misclassification is differential by case status,
- 21 it could influence effect estimates in
- 22 case-control studies."
- Do you agree with those statements?
- A. Yes, but it could influence in

1 intact reproductive tracts, should not be

- 2 discounted because of lack of statistical
- 3 significance. For all estimates we reported 95
- 4 percent confidence intervals.
- 5 So do I believe that this is
- 6 important addition to the literature? Yes, I
- 7 absolutely do, when considering the limitations
- 8 related to these cohort studies.
- 9 I'm not suggesting this is not an
- 10 important contribution. I'm suggesting that, in
- 11 our view, given the attenuation that is likely to
- 12 be occurring for many of the reasons that we
- 13 report in the letter, that we report in our
- 14 report, make this an important contribution and to
- 15 me validates the consistency of the findings that
- 16 we see in case-control studies.
- 17 Q. Dr. O'Brien in her reply doesn't
- 18 retract or withdraw the 2020 O'Brien paper or any
- 19 statements in it, correct?
- 20 A. No. She merely agrees with our
- 21 interpretation.
- 22 Q. She agrees with what she says she
- 23 agrees with in her reply, correct?
- A. That's right, but I believe there's

Page 387

1 either direction. It doesn't necessarily

- 2 influence in one direction or the other.
- Q. Please look at the very last
- 4 paragraph on the next page of Dr. O'Brien and
- 5 others' response. Please tell me when you can --
- 6 where you're at. The paragraph that begins "We
- 7 agree."
- 8 A. Yes, I'm here.
- 9 Q. In the middle of that paragraph, the
- 10 authors write:
- 11 "However, because of the rarity of 12 ovarian cancer and the risk of recall bias in
- 13 retrospective studies, we think that despite the
- 14 limitations, the prospective cohorts included in
- 15 the analysis offered -- included in -- included in
- 16 the analysis offered important new data for
- 17 addressing this question."
- Do you agree with that statement?
- 19 A. Well, yes, because I had
- 20 specifically stated that -- that I -- we felt that
- 21 the association was -- was, in fact, there. And
- 22 they specifically said that they completely agree
- 23 with me and colleagues that our results,
- 24 particularly the analyses limited to women with

1 more than one place where she agrees.

- Q. It says what it says, right?
- 3 A. Yeah, yeah. It says what it says.
- 4 Q. All right. Thank you.
- 5 A. Yeah.
- 6 Q. You can put that aside.
- 7 A. Okay.
- 8 Q. You mentioned a moment ago a
- 9 reference to this 10 percent number that you
- 10 reported in your 1992 study, correct?
- 11 A. Yes.
- 12 Q. Is it your opinion that 10 percent
- 13 of ovarian cancers diagnosed in 2024 are caused by
- 14 talcum powder?
- 15 A. At the time I wrote that, it was
- 16 based on the risk estimates that we saw in 1992,
- 17 and at that point, that was my estimate of the
- in and at that point, that was my estimate of the
- 18 potential proportion of the incidence that could
- 19 be explained by talc exposure.
- 20 Q. My question --
- 21 A. I don't know what talc -- what's
- 22 happening now with respect to talc exposure. I
- 23 suspect that given that they have taken the
- 24 product off the market and there have been a lot

Page 392

Page 390

- 1 of media around this in the news that perhaps the
- 2 prevalence of the exposure has decreased recently.
- 3 I just don't know.
- 4 Q. My question is to find out if you
- 5 have this opinion.
- 6 And is it your opinion that sitting
- 7 here today that 10 percent of ovarian cancer
- 8 diagnosed this year in 2024 will have been caused
- 9 by genital use of talcum powder?
- 10 A. Given that the most recent studies
- 11 that were done in 2016, eight years ago, found
- 12 similar risks as we found in 1992, and given that
- 13 there is a certain period of time that exposure
- 14 needs to occur in order to likely induce a
- 15 carcinogenic process, I would say that it's quite
- 16 likely that 10 percent of the incidence of ovarian
- 17 cancer today could be attributable to talc
- 18 exposure from the past.
- 19 Q. So is it your opinion that with
- 20 regard to 2000 women or 10 percent of women
- 21 diagnosed in 2024 with ovarian cancer, that they
- 22 never would have developed ovarian cancer if they
- 23 had not used talcum powder?
- 24 A. I can't -- I can't say that, but

- 1 association, other than the fact that McDonald had
- 2 tried to do that in a very small sample.
- 3 Q. Can you cite for me any study
- 4 reporting talc in the presence of inflammation in
- 5 the ovary before ovarian cancer has been
- 6 diagnosed?
- 7 A. I don't know of any studies like
- 8 that.
- 9 Q. Can you cite to any studies showing
- 10 an association between talc in the ovaries and
- 11 ovarian cancer risk, that is, having an increase
- 12 in risk if there's a prior finding of talc in the
- 13 ovaries?
- 14 A. I don't believe that kind of a study
- 15 has been done or really could be done in women who
- 16 don't have ovarian cancer. I don't know how you
- 17 would be able to biopsy essentially the tissue in
- 18 order to make that determination in healthy women.
- 19 Q. With regard to what you've generated
- 20 in this case as part of your work, we've talked
- 21 about the materials you brought with you. We
- 22 talked about your report.
- Have you otherwise provided to the
- 24 attorneys representing plaintiffs in this case all

Page 391

- 1 even if half of them didn't, being able to prevent
- 2 a thousand cases of ovarian cancer a year is a
- 3 huge public health intervention.
- 4 MR. HEGARTY: Let's go off the
- 5 record real quick.
- 6 (Recess: 5:19 p.m. -
- 7 5:33 p.m.)
- 8 MR. HEGARTY: We are back on
- 9 the record.
- 10 BY MR. HEGARTY:
- 11 Q. Dr. Harlow, I might jump around a
- 12 little bit on subject areas with my remaining
- 13 time.
- We talked earlier about the findings
- 15 from McDonald about talc in the ovaries of the
- 16 women studied both in the cases and the controls.
- 17 Can you cite for me any studies
- 18 showing an increase in risk of ovarian cancer in
- 19 women who have talc in their ovaries?
- 20 A. I don't believe there's any studies
- 21 that have been done that would have identified
- 22 women with ovarian cancer and talc in their
- 23 ovaries compared to women with ovarian cancer and
- 24 not talc in their ovaries and looking at the

- Page 393 1 the materials you reviewed and all the work
- 2 product you've generated as part of your work on
- 3 this case?
- 4 A. I believe so.
- 5 Again, as of this point, yes, but I
- 6 don't know what will become available in the
- 7 future.
- 8 Q. All I'm asking you about is what you
- 9 can testify to today.
- 10 A. Yeah.
- 11 Q. Have you provided to the lawyers
- 12 representing the plaintiffs in this case all the
- 13 materials you've reviewed and generated as part of
- 14 your work on this case?
- 15 A. Yes.
- 16 Q. And do you know if Dr. Rothman ever
- 17 provided all the materials he worked on or
- 18 reviewed as part of his work on this case?
- 19 A. I don't -- I don't know what he did
- 20 in prior to him inviting me to work with him. So
- 21 I don't know what he had done and what might have
- 22 been provided. And I don't know believe there was23 anything that he did while we were working
- 24 together that would have been independent of my --

	Page 394		Page 396
1	my work.	1	A. I haven't.
2	Q. As part of your work in this case or	2	Q. What information do you have as far
	otherwise, have you ever reviewed what your	_	
1	•		as whether these groups on their websites do or do
l	university, Boston University, says about ovarian		not list talc as a risk factor for ovarian cancer?
5	cancer risk factors?	5	A. I would have to go and look on the
6	A. No.	6	.,
7	Q. Have you ever reviewed what Dana	7	Q. Do you have any comment as to those
	Farber says about ovarian cancer risk factors?	8	groups to the extent they don't list talc as a
9	A. No.	9	risk factor on their websites?
10	Q. I'll represent to you that those	10	MR. TISI: Objection. Vague.
11	websites, that the websites for those two	11	Ask him to speculate.
	facilities don't list talc as a risk factor for	12	Go ahead.
-	ovarian cancer.	13	THE WITNESS: I think if they
14	Do you have a response to that?	14	don't list it, that it would be
15	MR. TISI: Objection. Vague	15	appropriate for them to to list it
16	and ambiguous and unanswerable but	16	as as a potential risk factor that
17	BY MR. HEGARTY:	17	perhaps may not be advisable to be used.
18	Q. If you can answer.	18	That would be my recommendation.
19	MR. TISI: You can answer if	19	BY MR. HEGARTY:
20	you even understand the question. I'm	20	Q. You have not personally contacted
21	not sure I do.	21	SGO
22	THE WITNESS: No, I understand	22	A. No.
23	the question, and I am sure they may be	23	Q CDC or ACOG, correct?
24	concerned, given the known litigation	24	A. No.
	Page 395		Page 397
1	that's going on, for them to come forward	1	Q. You make a reference in your report
2	and put that kind of information on their	2	
3	external-facing page.	3	A. T-a-h-e-r. Yes.
4	That would be my guess. I	4	Q. Please look at the end of your
5	have no other I have no known	5	report the list of citations, and to what Taher
6	knowledge as to why they do or do not put		study do you make reference to?
7	that kind of information on their web	7	A. Well, let me pull out the Taher
8	on their website.		study. It's right here.
-	BY MR. HEGARTY:	9	Q. No, I need you to look at your
10	Q. Have you reviewed as part of your		report and tell me what you specifically refer to
	work in this case the list of risk factors	11	· · · · · · · · · · · · · · · · · · ·
	reported by the Society of Gynecologic Oncology,	12	A. Okay.
1	the SGAO, the CDC?	13	Q. I want to make sure we start on the
14	A. SGO.		same page.
15	Q. SGO. Thank you.	15	A. I understand.
16	The SGO, the CDC, and ACOG?	16	MR. TISI: Is there only one?
17		17	THE WITNESS: I don't know.
	A. I am aware that they either do not indicate it as a risk factor or have indicated	18	MR. HEGARTY: That's what
	that it is unclear whether it is a risk factor or	19	
			we're trying to find out.
	not. They may even have said it's not. I don't	20	MR. TISI: Okay.
	know.	21	THE WITNESS: Taher is is
22	Q. Have you reviewed	22	cited from the 2020 article. "Data on
23	A. I haven't.	23	systematic review of meta-analysis of
24	Q the list and the risk factors?	24	epidemiologic evidence."

1	Page 398	1	Page 400
$\frac{1}{2}$	MR. HEGARTY: And I'll mark as		when you are there.
$\frac{1}{2}$	Exhibit 29 that 2020 article.	2	A. Uh-huh. I am there.
3	(Document marked for	3	Q. At the end of the first paragraph of
4	identification as Harlow Exhibit 29.)		the "Conclusion" section, the authors write:
5	THE WITNESS: Uh-huh.	5	"Consistent with a previous
6	MR. HEGARTY: I'll also mark	6	evaluation by the IARC in 2010, the present
7	as Exhibit Number 30 the Taher 2019	7	, , , , , , , , , , , , , , , , , , ,
8	article.		data indicates that perineal exposure to talc
9	(Document marked for		powder is a possible cause of ovarian cancer in
10	identification as Harlow Exhibit 30.)		humans."
	BY MR. HEGARTY:	11	Do you see where I'm reading?
12	Q. My question is: When you talked	12	A. Yes, I do.
13	about Taher in your report, were you intending to	þ13	Q. Do you agree with that statement?
14	refer to the 2020 article or the 2019 article?	14	A. Yes.
15	A. Yeah, this is I believe it's the	15	Q. Please turn next in this paper over
1	same data, but I probably was reviewing the	16	to page 96. Just above the "Discussion" section.
	· ·	17	A. Yes.
18	critical the "Critical review."	18	Q. The paragraph just before the
19	I wonder if I might have cited it	19	"Discussion" section reads:
20	wrong.	20	"Overall, the graphical results
21	Q. That was my question.	21	shown in this Figure 3 suggests a possible
22	A. Yeah.	22	increasing trend in ovarian cancer risk with
23	Q. When you make reference to Taher	23	increasing cumulative exposure to talc; however
24	over on page 13 of your report	24	there is also a high degree of uncertainty
	Page 399		Page 401
1	A. Yep.		surrounding many of the individual risk
2	Q carrying over to page 14, did you		estimates."
	intend to actually cite Exhibit 30, which is the	3	Do you agree with that statement?
	"Critical review," but instead you cited Exhibit	4	MR. TISI: Objection.
5	29, the "Data on systematic review"?	5	THE WITNESS: Well, as I look
6	A. (Reviews document.)	6	at the figure that they're referring to,
7	It looks like it's the 24	7	all but two of the point estimates are
8	case-control studies, and that would have been the	8	above 1 from what I can see, maybe three,
9	article. So it was it was the critical	9	which is why they have a 1.28 with a very
10	evaluation paper.	10	narrow confidence interval this is 24
11	Q. So the citation in your report	11	studies from 1.20 to 1.37.
12	should be to Exhibit Number 30 instead of Exhibit	12	BY MR. HEGARTY:
13	Number 29?	13	Q. So going back to my question: Do
14	A. That's correct, and, in fact, the	14	you agree with the way they characterize their
15	odds ratio that I present in my report is the one		data as I read to you in that sentence?
	from 2019, the 1.28 in the abstract. Sorry.	16	A. Yeah. Where was that sentence
17	Q. Please note at Exhibit Number 30,	17	again? Sorry.
18	the systematic review article.	18	Q. It's in the it's in the paragraph
19	A. The Taher article?	19	
20	Q. The Taher article.	20	A. Right. Paragraph above
21	A. Yes.	21	"Discussion."
22	Q. And turn over to page 99.	22	(Reviews document.)
23	Please look at the "Conclusion"	23	Well, that's that's why
1			doing this type of a meta-analysis of 24 studies
24	section and tell me when you get there. Tell me	24	doing this type of a meta-analysis of 24 sincres

	D 400		5 (0)
1	Page 402 allows us to have better precision in the risk.	1	Page 404 meta-analysis will not correct the systematic
	So any one particular study is going to not have		error?
	the precision that we would gain by being able to	3	A. That is correct. You would have to
1	meta-analyze 24 of them together.	1	make the assumption that the dozens of
5	So when they say "there is also a		case-control studies that are all showing a risk
1	high degree of uncertainty surrounding many of the		of about 1.3 to 1.5 well, as I say, 1.0 to
1	individual risk estimates," that's the whole		1.8 would systematically all be having an error
1	reason why we do meta-analyses like this,		in the same direction and that's highly unlikely.
1	especially in the context of something like this	9	Q. In that same part of the Taher
1	association which is around 1.3 and you have		paper, after the statement I read to you, the
	variability around that.		authors go on to say:
12	•	12	"A formal statistical test for trend
	case-control or cohort study and let me expand		was not attempted because of the high degree of
	that.		heterogeneity among studies noted previously in
15	If there are systematic errors in		our meta-analysis discussed in Section 3.4."
1	cases in control studies that you combine in a	16	Is that saying that there was
1	meta-analysis, combining them in a meta-analysis	1	that they did not do a formal statistical test for
	will not correct the systematic errors, correct?		trend, in your opinion, because of the differences
19	MR. TISI: Objection.		across the studies that was reflected in their
20		1	test for heterogeneity?
21	know that I don't believe they said	$\begin{vmatrix} 20 \\ 21 \end{vmatrix}$	A. I'm not sure what they're referring
$\begin{vmatrix} 21\\22\end{vmatrix}$	system I don't believe he said	1	to in a statistical test of trend because usually
23	systematic systematic error.		a statistical test of trend is looking within a
24	•		particular study, or if you're pooling studies,
24		24	
1	Page 403 sorry. That term you used.	1	Page 405 they they have been they have been merged
$\frac{1}{2}$	•		together in a way that would allow you to assess a
3			test of trend with increasing exposure with
4			increasing risk of the disease.
5	1	5	So I'm not sure what they're talking
6	•	_	about in terms of a test of trend in the context
7	A what they specifically said was		of that statement.
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	that "there was a high degree of uncertainty	8	Q. Please turn over to page 98, the
	surrounding many of the individual risk		Section 4.4 "Applying GRADE framework." Tell me
1	estimates."	1	when you are there.
11	Uncertainty could relate to power.	11	A. "Applying GRADE framework." Yes.
	It could relate to the width of the confidence		Uh-huh.
1	intervals. It could, but it doesn't it doesn't	13	Q. The authors state here that they
	suggest there's systematic error in in the	1	apply "the GRADE framework to assess the quality
	studies.		of the evidence derived from the studies included
16		1	in this review," correct?
	confusing is not specific as to the Taher	17	A. Yes, that's what they state.
1	study.	18	Q. They go on to say that:
19	•	19	"Using GRADEpro for the assessment,
	is a consistent systematic error across a group of		the certainty of the evidence was classified as
	case-control and cohort studies that you're		very low."
1	combining in a meta-analysis	22	Correct?
23		23	MR. TISI: Objection.
24		24	THE WITNESS: (Reviews
	Z. man comonning mem in a	4	TILL WITHLIBB. (INCVICED

	Page 406		Page 408
1	document.)	1	a daily basis.
2	Can you reread that sentence	2	Q. Please turn over to the next page,
3	where it is? I'm not seeing it.	3	page 99.
4	BY MR. HEGARTY:	4	A. Yes.
5	O. Sure.	5	Q. The paragraph at the top begins:
6	It's just after the sentence I	6	"Study design is a critical
7	read	7	component in the GRADE assessment, where
8	MR. TISI: Right there.		randomized controlled trials (RCTs) are viewed as
	BY MR. HEGARTY:	9	
10	Q under the section "Applying GRADE		observational studies."
	framework." The first sentence. The second	11	Do you agree with that statement?
	sentence reads	12	A. I do.
13	A. Oh. Yes.	13	Q. They go on to say:
14	Q "Using GRADEpro for the	14	"As such, the evidence derived from
	assessment, the certainty of the evidence was		the observational studies in this review was
1	classified as very low."		initially classified as being of low certainty
17	A. Yes, they say that.		within the GRADE framework; this was further
18	Q. Are you familiar with the GRADE		downgraded to very low certainty in light of the
	framework outside of this study?		risk of bias noted above."
20	A. I am not.	20	Do you see where the authors
21	Q. The authors a couple sentences or at		downgraded their evidence to very low certainty?
	least one sentence later says:	22	A. Yeah, but again
23	"However, we deemed the findings to	23	MR. TISI: Objection.
	be subject to an appreciable risk of bias, mainly	23	THE WITNESS: the next
24		24	
1	Page 407	1	Page 409
1	due to the potential for recall bias in the	1	sentence says:
	included case control studies and the relatively	2	"Despite the very low
1	short follow-up periods between exposure and	3	certainty assigned by the GRADE
	outcome assessment in the included cohort	4	evaluation, which heavily factors
	studies."	5	evidence from RCTs."
6	First of all, did I read that	6	You can't do an RCT and assign
	correctly?	7	women to receive or not receive talc
8	A. You did, but you failed to read the	8	exposure. So the grade evaluation if it
9	y y	9	relies heavily on on results from
10	"First, we considered our findings	10	randomized clinical trials is going to
	from the meta-analysis to lack any serious issues		grade, apparently from this statement,
	with respect to inconsistency, indirectness, and	12	everything low that's not an RCT.
1	imprecision."		BY MR. HEGARTY:
14	Q. Going to my question, though, did I	14	Q. Please look over at or back at page
1	read that statement correctly?		98.
16	A. Yes, you did.	16	In Footnote A at the bottom, they
17	Q. Do you disagree with that statement?		describe the "GRADE Working Group grades"?
18	A. I disagree with the issue of recall	18	A. Uh-huh.
1	bias. Although, again, when you're only looking		Q. Correct?
1	at ever never with respect to talc exposure, there		A. Uh-huh.
	will possibly be some recall bias.	21	Q. Yes?
22	But, again, as I've stated many	22	A. Yes, I see it. Sorry.
100	times, I believe the risk of talc exposure is	23	Q. In that footnote, they describe the
	substantially due to long-term use for decades or		

	P. 410		P. 412
1	Page 410 "We have little confidence in the	1	Page 412 A. Yes.
	effect estimate: the true effect is likely to be	$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	Q. Assume for purpose of my question
$\frac{2}{3}$	substantially different from the estimate of	3	that the average age of women starting talcum
4	•	Ι.	powder use on a regular basis is age 20, and the
5		5	average age of a tubal ligation and/or a
6	Did I read that correctly? A. You did.		hysterectomy is in the 40s.
7	Q. So the authors in this study	7	Is that 20 years of use
'			insufficient, in your view, to increase those
8	talcum powder use and ovarian cancer is of very	l .	women's risk of ovarian cancer?
1	low certainty, correct?	10	
11	-		, ,
12	MR. TISI: Objection. THE WITNESS: That was their		every day in a patent genital tract until that
		l .	time is a substantial amount of exposure, in my view.
13	<u> </u>	13	
14			Q. In my hypothetical, if that is the
15	Q. Did you read when you sorry.		nature of use in the studies that we looked at
17	Strike that. Did you see when you read the Health		that have looked at patent and unpatent tubes, how is then an emphasis on the finding findings of
	· · · · · · · · · · · · · · · · · · ·		
1	Canada screening assessment that they rely or that	19	unpatent tubes a noteworthy finding?
	they reference this Taher study?	l .	MR. TISI: Objection. BY MR. HEGARTY:
20	· · · · · · · · · · · · · · · · · · ·		
	studies. I don't know. I mean, I have the Health	21 22	Q. If you can understand my question? MR. TISI: Misstates his
1	Canada report and I I don't dispute that they		
23	that they reference this study.	23 24	testimony. Go ahead.
24	Q. Do you see where it says under the	24	Go allead.
	Page 411		Page 413
1	"Sources of funding" part of this paper that:	1	THE WITNESS: Why don't you
2	"This work was supported by Health	2	repeat that question, please.
1	Canada as part of their Chemicals Management Plan	3	BY MR. HEGARTY:
	via contract number" and they list the contract	4	Q. Sure.
	number? A. Yes.	5	If my hypothetical is accurate and
6			the women studied in those studies that have
7	Q. "To Risk Scientists International	l .	looked at patent and unpatent tubes had 20 years
8	· //		of talc exposure prior to having tubal ligation or
9 10	A. Yes, I see that.		hysterectomy, how is it noteworthy to compare those women to women with patent tubes?
	•		
11 12	Health Canada provided funding to do this study? A. Yes, they they did.	11	MR. TISI: Objection. BY MR. HEGARTY:
13	A. Yes, they they did. I don't believe that I believe	13	
	Health Canada is a governmental agency. Okay.		Q. If you can understand do you understand my question?
1	It's not a private foundation. It's a	15	A. Yeah. I think you're you're
1	governmental agency. Just like we are funded here		assuming that the studies looked only at women who
1	in the United States by the National Institutes of		were exposed during times when they had patent
	Health for a lot of research that we do.		tubes, and then looking at women who are only
19			exposed during times when their genital tract was
	studies reporting on relative risk or odds ratios	l .	closed.
1	between women with patent and women with unpaten		Is that what you're saying?
1	tubes, correct?	22	Q. Well, I'm not sure that's what I'm
23	A. (Nods head).		saying, but my point the question I'm asking
123			you is: To the extent those there's
24	Q. Correct?		VOIL IS TO THE EXTENT MOSE THEFE'S

	Page 414		Page 416
1	differences between the group who used talc for 20	$\frac{1}{2}$	A. Well, because most of the studies
1	years prior to having tubal ligation or		that have looked at this have shown that it is not
	hysterectomy and those that had patent tubes, what	3	as strong a risk factor as that among women who
	do you explain the differences to be?	4	apply it daily on a regular basis.
5		5	Q. You said you reported on that data
1	explained the possibility that if they're using it	l	in at least one of your prior studies, correct?
	and they do not have patent tubes, it does not	7	A. We have, yes.
1	preclude them from exposure, particularly from	8	Q. Is that appropriate data to look at
	inhalation.		when evaluating whether there's a risk of ovarian
10	, 1	l	cancer with talcum powder use?
1	of talcum powder use can cause ovarian cancer?	11	A. I believe so.
12		12	Q. We talked a moment talked earlier
	that it's a possibility. I believe it was was		in the day about whether it is necessary for talc
	it Schildkraut's article that discussed that?	l	to reach the ovary for purposes of your biologic
15	One of the articles did discuss that	15	, ,
	as a possibility, and I didn't do an extensive		that talc can get to the fallopian tubes.
17	1	17	Do you recall that discussion?
1	specifically on ovarian cancer.	18	A. Yes.
19		19	Q. Is it necessary for purposes of your
	another as to whether inhalation of talc can cause	20	
21		21	1
22	1	22	A. I think it would be reasonable to.
	point, but you've tweaked my interest.		If there were no evidence of talc reaching the
24	, ,	24	fallopian tubes, I would I would reassess that,
	Page 415	1	Page 417
	reference in your report to studies that have	$\frac{1}{2}$	
	looked at talc-dusted diaphragms or talc-dusted	2	MR. TISI: May I ask how much
	condoms in ovarian cancer risk, correct?	3	time we have?
4	F , -	4	MR. HEGARTY: Let's go off the
	definitely discuss that. In the report, we we	5	record.
1	focus on on direct perineal application.	6	(Recess: 6:01 p.m
	Although I would not be surprised if within my	7	6:02 p.m.)
	report on some of these particular studies we	8	MR. HEGARTY: We're back on
	talked about the issue of exposure on diaphragms	9	
	or condoms.	10	
11	But I believe in most of the	11	left, 16 minutes, I believe, that we
1	research that I've looked at, the risk is lower in	12	talked about. I'm going to reserve that
	those women. Probably because of the infrequent	13	time for any further questioning once
	nature of the exposure.	14	1
15	• 1	15	doing his direct examination of
	that's or has been reported in the study.	16	
17	My question is: Did you do an	17	MR. TISI: And we will, you
1	analysis in your report in this case of the	18	know, I will be flexible with you as long
19	studies that looked at the risk of ovarian cancer	19	as it's not unreasonable.

MR. HEGARTY: Thank you.

(Recess: 6:03 p.m. -

6:04 p.m.)

20

21

22

23 //

24 //

22

24

21 talc-dusted condoms?

20 from women using talc-dusted diaphragms or

Why did you not do that?

23 in my report about that particular risk.

I did not specifically put a section

Page 418	Page 420
1 EXAMINATION	1 A. I've looked at
2 BY MR. TISI:	2 MR. HEGARTY: Do you have
3 Q. Doctor, I'm Chris Tisi. I am the	3 copies of any studies you're going to
4 attorney who is the who has retained you to	4 use?
5 give your expert opinion in this case.	5 MR. TISI: Yeah.
6 So let me just start with the big	6 MR. HEGARTY: Do you have
7 picture and perhaps maybe we can maneuver to some	7 copies for me?
8 specific areas.	8 MR. TISI: I do.
9 You were asked a lot of questions	9 MR. HEGARTY: I was going to
10 about I think you talked about Weiss's study	say I can find copies if I need to, but I
11 and different studies over the course of the past	11 will wait.
12 40, 50 years. I'm going to bring you to today and	12 BY MR. TISI:
13 just ask you a big picture question.	13 Q. I'm going to use by way of
14 Based upon what's known today and	14 example I'm going to show you a study or I'm
15 having considered all the things you considered	15 sorry. Maybe this is one in which I don't.
16 over the past 50 years of research, do you	16 MR. HEGARTY: Which one is it?
17 continue to believe to a reasonable degree of	17 MR. TISI: This is the 2021.
18 scientific certainty that talc is a cause of	18 This one.
19 epithelial ovarian cancer?	19 MS. PARFITT: Which one?
20 MR. HEGARTY: Objection to	20 O'Brien?
21 form.	21 MR. TISI: 2021.
22 THE WITNESS: I do.	22 MR. HEGARTY: Who are the
23 BY MR. TISI:	23 authors?
24 Q. Okay. Did anything that counsel	24 MR. TISI: It's O'Brien
. , , ,	
Page 419	Page 421
1 told asked you about today change that opinion 2 at all?	 Weinberg, D'Aloisio Moore, and Sandler. MR. HEGARTY: I think I have a
	2 MR. HEGARTY: I think I have a copy. If you don't have a copy, I think
3 MR. HEGARTY: Objection to	4 I have one. I can find it.
4 form.	5 MR. TISI: Okay. I'm going to
5 THE WITNESS: No.	6 have this marked as Plaintiff's Exhibit
6 BY MR. TISI:	Number 1.
7 Q. Okay. Do you believe it's	8 Do you have a copy of that?
8 biologically plausible that talc can reach the 9 ovaries, can cause inflammation resulting in	9 THE WITNESS: Yes, I do.
10 cellular changes, enter the ovary, and and it's	10 MR. TISI: Can I mark yours as
11 biologically plausible that that is in the chain	11 Exhibit Number 1, please?
	12 (Document marked for
12 of events leading to ovarian cancer?	13 identification as Exhibit P1.)
MR. HEGARTY: Objection to form of the question.	14 MR. HEGARTY: Do you have a
1	· · · · · · · · · · · · · · · · · · ·
	15 copy?16 MR. TISI: You can read over
biologically plausible.BY MR. TISI:	his shoulder if you don't mind.
	18 MR. HEGARTY: Yeah, I do want
	to when you're done. Is your copy marked
19 of questions today about Dr. O'Brien.	20 on?
20 Did you look at Dr. O'Brien's	
21 research? Did you look at Dr. O'Brien's research 22 over over time?	
22 over over time? 23 A. Yes.	22 copy.23 MR. HEGARTY: I just want to
	24 look at back over it.
24 Q. Okay.	27 IOOK at back over it.

Page 422	Page 424
1 MR. TISI: Sure.	1 1994.
2 MR. HEGARTY: Beyond what	2 BY MR. TISI:
3 you're asking him about.	3 Q. It says:
4 MR. TISI: No problem.	4 "Additional or more severe adverse
5 BY MR. TISI:	5 effects could occur if the talc contains asbestos,
6 Q. I'm going to this is an article	6 a known carcinogen sometimes mined in the same
7 that Dr. O'Brien and colleagues wrote on "The	7 location as talc."
8 association between douching, general talc use,	8 Do you see that?
9 and the risk of prevalent and incident cervical	9 A. Yes, I do.
10 cancer."	MR. HEGARTY: Objection to the
Have you seen this article before?	11 form.
12 A. Yes.	12 BY MR. TISI:
13 Q. Okay. I'm going to refer you to the	13 Q. Okay. Does that add to the biologic
14 second page. She says she describes she	14 plausibility that talc is a cause of ovarian
15 describes her own research as well as biologic	15 cancer and is that something that you wrote about
16 plausibility, and I'm going to read it to you and	16 in your article in 1989?
17 ask whether you agree with it. Okay?	17 A. Yes.
18 A. Yes.	18 MR. HEGARTY: Objection to the
19 Q. It says:	19 form.
20 "Genital talc use could also	20 THE WITNESS: It is something
21 plausibly contribute to cervical cancer risk."	21 that I mentioned in 1989 in my article.
22 She's talking about cervical cancer	22 BY MR. TISI:
23 there, right?	23 Q. And then she goes on to say:
24 A. Uh-huh.	24 "The epidemiologic literature
Page 423 1 Q. Okay. But then she goes on to say:	Page 425
2 "Talc applied to underwear, sanitary	1 supports a possible positive association between 2 general talc use and ovarian cancer."
3 napkins, diaphragms, or directly to the perineal	3 Do you see that?
4 region can enter the vagina and travel up the	
5 reproductive tract."	· ·
6 Is that consistent with what you	5 Q. And if you look at the citation, she 6 cites her own pooled analysis that counsel was
7 described in your literature 20, 30 years ago?	7 asking you about before, correct?
8 MR. HEGARTY: Objection to the	
	8 A. That's correct, and the Terry study.
	9 Q. Okay. Now, you
10 THE WITNESS: Yes. 11 BY MR. TISI:	10 A. Are we done with this?
	11 Q. Yes, we are.
12 Q. Okay. Secondly says:	12 A. Okay.
13 "Talc particles may act as	13 Q. In fact, she's made that that
14 irritants, inciting an inflammatory response and	14 comment on more than one occasion since publishing
15 potentially affecting individuals'	15 her article, correct?
16 susceptibility."	MR. HEGARTY: Objection to the
Do you see that?	form.
18 A. I do.	18 THE WITNESS: I would need to
19 Q. Okay. Is that something you wrote	19 see it.
20 about 20, 30, or 40 years ago?	20 MR. TISI: Okay. Okay. I
MR. HEGARTY: Objection to the	have another. I have another copy of it.
22 form.	Here you go.
THE WITNESS: I for sure	MR. HEGARTY: Okay. I'll give
24 mentioned it in my review article in	you your copy back. Is that Exhibit

	Page 426		Page 428
1	Number 1?	1	questions by counsel about whether you had eve
2	THE WITNESS: Oh, I've got		made any effort to educate your colleagues with
3	the one that says exhibit on it. Here		the medical and scientific community about the
4	-		potential problems of talc and ovarian cancer.
5	you this back?	5	Do you remember those questions?
6	-	6	MR. HEGARTY: Objection to
7	Q. No, just leave it.	7	form.
8	-	8	THE WITNESS: Yes, I remember
9	MR. HEGARTY: Are you using	9	those questions.
10	that as P1 or 1?	10	BY MR. TISI:
11	MR. TISI: P1. Plaintiff's 1.	11	Q. Okay. Now, taking those two things,
12	MR. HEGARTY: I just want to	12	together talking about the biologic plausibility
13	make sure that when we read the record we	13	of talc and ovarian cancer and the question of
14	don't	14	letting people know about your views, is that
15	MR. TISI: Yeah, if I have to	15	something you did in the published medical
16	go back and follow your system, I won't	16	literature before you were ever contacted by me,
17	be able to.	17	Ms. Parfitt, or anybody else?
18	BY MR. TISI:	18	MR. HEGARTY: Objection to the
19	Q. Okay. So let me go back and ask you	19	form.
20	some things.	20	THE WITNESS: Well, in my
21	He asked you some questions about	21	published article, my 1989 article, my
	whether you were a toxicologist, whether you were	22	1992 article, my 1994 article and the
	a cellular biologist, whether you're a medical	23	article I did with Dr. Cramer in 1999, we
24	doctor.	24	always ended with our belief that this
	Page 427		Page 429
1	Remember all those questions?	1	was an exposure that women should avoid.
2			BY MR. TISI:
3	,	3	Q. And you talked about asbestos
4			contamination in those articles, correct?
	you have opportunity to synthesize the biologic	5	A. Yes.
1	evidence to evaluate in connection with the	6	Q. You talked about biologic
	statistical evidence that you gather as an		plausibility including the migration, correct?
8	1 &	8	MR. HEGARTY: Objection to the
9	3	9	form.
10	form. THE WITNESS: It's the	10	THE WITNESS: As I do in all
11 12		11	of my research articles.
13	1		BY MR. TISI:
14	3	13	Q. You talked about you talked about
15	C ,		all the things that counsel asked you about today
16			long before you were ever retained by us, true?
17	S	16	MR. HEGARTY: Objection to the
18	,	17 18	form. THE WITNESS: That's correct
19	•		THE WITNESS: That's correct. BY MR. TISI:
20		20	
$\begin{vmatrix} 20\\21 \end{vmatrix}$	studies of cen-based studies, of other studies that would provide evidence that		Q. Okay. For example, let me show you what I have marked as Exhibit Number P2, which is
$\begin{vmatrix} 21\\22\end{vmatrix}$	-		what I have marked as Exhibit Number P2, which is your article from 1989.
	BY MR. TISI:	23	(Document marked for
$\begin{vmatrix} 23 \\ 24 \end{vmatrix}$		24	identification as Exhibit P2.)
	Z. Shaj. Thia jou were also asked some		Toolighouton as Dalifold 1 2.)

,	Page 430	1 O Oly Sympositive diverse	Page 432
	BY MR. TISI:	1 Q. Okay. So one of the things you	
2	Q. And I'm not going to go over every	2 talked about in your early literature is who	
3	aspect of it, but you're familiar with this	3 or not asbestos was in these products that	were
4	article, correct?	4 used perineally, correct?	_
5	A. Yes.	5 MR. HEGARTY: Objection to	o the
6	Q. Okay. And this is a study called "A	6 form.	
7	, and the second	7 THE WITNESS: That is	
	The Influence of Perineal Exposure to Talc,"	8 correct, and I believe in the body of the	
	correct?	9 discussion I talk about the evidence f	or
10	A. Yes.	that.	
11	Q. Okay. And this was 1989, correct?	11 BY MR. TISI:	
12	A. That's correct.	Q. Okay. Let's go to the next one,	
13	Q. Okay. George Bush the first was	13 1982, which I think was previously marke	ed, but I'm
14	president, right?	14 going to mark it again because I don't war	nt to dig
15	A. I don't recall. (Laugh).	15 through my stuff.	
16	Q. Long time ago, fair?	16 A. 1992?	
17	A. Yes.	Q. 1992. This is an article "Perine	al
18	Q. Okay. And you write at the end of	18 Exposure to Talc and Ovarian Cancer Ris	k," Bernard
19	your and you talk about that there was an	19 Harlow, and this will be Exhibit P3.	
20	increased incidence in borderline ovarian tumors	20 (Document marked for	
21	in women who had been exposed to deodorizing	identification as Exhibit P3.)	
22	powders, correct?	22 BY MR. TISI:	
23	A. It was not incidence. It was risk.	Q. And what was the significance of	of
24	Q. Risk. True?	24 this study, Doctor?	
	Page 431		Page 433
1	A. Yes.	1 A. Well, I believe this was one	of the
2	Q. Okay. But I want to refer you to	2 one of the first studies to really try	to tease
3	the very end of the article and, again, you were	3 out the dose-response association with	h talc
4	not retained as an expert at the time, correct?	4 applications by looking at it excluding	g use after
5	A. Correct.	5 hysterectomy or tubal ligation and du	ring
6	Q. In fact, there was I'm going to	6 non-ovulatory months where we see a	an importan
7	represent to you that no case of ovarian cancer	7 dose response.	
8	and talc wasn't ever filed until 2009.	8 Q. And you saw anywhere bety	ween a
9	All your published literature, with	9 you saw an increased risk in dealing v	
10	the exception of the letter to the editor, was	10 with patent intact reproductive tracts	of ovarian
1	published before there was any talc litigation,	11 cancer, true?	
1	correct?	MR. HEGARTY: Objecti	on to the
13	A. Yes.	form.	
14	Q. Okay. And you write at the end, the	THE WITNESS: Yes, but	t it
15	last sentence. I'll read it into the record.	wasn't it wasn't specifically ask	
16	"Although these data need	about that. It was actually calcul	_
1	replication, they raise the possibility that the	applications that were used durin	
1	risk of ovarian tumors in women who apply	periods when there was a patent g	-
	deodorizing powder to the perineum may not relate	19 tract.	···
	to talc per se but rather to asbestos	20 BY MR. TISI:	
± 20	contamination and/or a substances or substances	Q. Okay. And that brings me t	to a
1	COMPANDINATION AND CONTRACTOR OF SUBSTAINCES	Q. Chaj. This the offings the	•••
21		22 question that counsel was asking a lot	
21 22	used specifically for deodorization."	22 question that counsel was asking a lot guestions about.	
21	used specifically for deodorization." Do you see that?	22 question that counsel was asking a lot 23 questions about. 24 He asked you about years of	t of

	D 424		D 424
1	Page 434 asked you about frequency of use.	1	Page 436 form.
2		2	THE WITNESS: I did not think
3		3	of it as the talc industry. I thought of
4		4	it as the Food and Drug Administration
5		5	and the International Society of
6		6	Regulatory Toxicology & Pharmacology. I
7	•	7	did not
8		8	BY MR. TISI:
9	•	9	Q. At the time.
10		10	A. At the time, I did not think to
11		-	myself, oh, this is an industry-sponsored
12	•		conference.
	get an accurate assessment of exposure. BY MR. TISI:		
		13	Q. Okay.
14		14	A. I basically wanted I was pleased
	do in this particular study, correct?		to be invited, was pleased to have the opportunity
16		l	to convey my findings, with the hope that it would
17		l	lead to potential mitigation of the exposure.
	study, you state again, this is long before	18	Q. Okay. And so when you went into
19	\mathcal{E}		this when you went into this meeting, you were
20	1 1 5	l	pretty clear that not only was there an
	for ovarian cancer, any potentially harmful		association in people who had been exposed
	exposures should be avoided, particularly those	l	women who had been exposed, but that for
	with limited benefits. For this reason, we		precautionary reasons they shouldn't be using it,
24	discourage the use of talc in genital hygiene,	24	true?
	Page 435	1	Page 437
	particularly as a daily habit."	1	MR. HEGARTY: Objection to the
2		2	form.
3		3	THE WITNESS: I had stated
4	C	4	
5	VOIL did VOILEVER fell the medical and scientific	_	that in my 1989 article. I had stated
		5	that in my 1992 article. And when I went
	community about your point of view, you actually	6	that in my 1992 article. And when I went into the conference in 1994, my views had
7	community about your point of view, you actually published in the peer-reviewed literature about	6 7	that in my 1992 article. And when I went into the conference in 1994, my views had not changed.
7 8	community about your point of view, you actually published in the peer-reviewed literature about that, correct?	6 7 8	that in my 1992 article. And when I went into the conference in 1994, my views had not changed. BY MR. TISI:
7 8 9	community about your point of view, you actually published in the peer-reviewed literature about that, correct? MR. HEGARTY: Objection to the	6 7 8 9	that in my 1992 article. And when I went into the conference in 1994, my views had not changed. BY MR. TISI: Q. Now, in the article itself and do
7 8 9 10	published in the peer-reviewed literature about that, correct? MR. HEGARTY: Objection to the form. Misstates my question.	6 7 8 9 10	that in my 1992 article. And when I went into the conference in 1994, my views had not changed. BY MR. TISI: Q. Now, in the article itself and do you have a copy of the article in front of you?
7 8 9 10 11	published in the peer-reviewed literature about that, correct? MR. HEGARTY: Objection to the form. Misstates my question. You can answer.	6 7 8 9 10 11	that in my 1992 article. And when I went into the conference in 1994, my views had not changed. BY MR. TISI: Q. Now, in the article itself and do you have a copy of the article in front of you? A. The summation of it by Carr or
7 8 9 10 11 12	community about your point of view, you actually published in the peer-reviewed literature about that, correct? MR. HEGARTY: Objection to the form. Misstates my question. You can answer. THE WITNESS: You correctly	6 7 8 9 10 11 12	that in my 1992 article. And when I went into the conference in 1994, my views had not changed. BY MR. TISI: Q. Now, in the article itself and do you have a copy of the article in front of you? A. The summation of it by Carr or the my my article? My review?
7 8 9 10 11 12 13	community about your point of view, you actually published in the peer-reviewed literature about that, correct? MR. HEGARTY: Objection to the form. Misstates my question. You can answer. THE WITNESS: You correctly summarize what I had indicated in my	6 7 8 9 10 11 12 13	that in my 1992 article. And when I went into the conference in 1994, my views had not changed. BY MR. TISI: Q. Now, in the article itself and do you have a copy of the article in front of you? A. The summation of it by Carr or the my my article? My review? MR. TISI: I'm going to mark
7 8 9 10 11 12 13 14	published in the peer-reviewed literature about that, correct? MR. HEGARTY: Objection to the form. Misstates my question. You can answer. THE WITNESS: You correctly summarize what I had indicated in my published work.	6 7 8 9 10 11 12 13 14	that in my 1992 article. And when I went into the conference in 1994, my views had not changed. BY MR. TISI: Q. Now, in the article itself and do you have a copy of the article in front of you? A. The summation of it by Carr or the my my article? My review? MR. TISI: I'm going to mark it as Exhibit Number 4.
7 8 9 10 11 12 13 14	community about your point of view, you actually published in the peer-reviewed literature about that, correct? MR. HEGARTY: Objection to the form. Misstates my question. You can answer. THE WITNESS: You correctly summarize what I had indicated in my published work. BY MR. TISI:	6 7 8 9 10 11 12 13 14 15	that in my 1992 article. And when I went into the conference in 1994, my views had not changed. BY MR. TISI: Q. Now, in the article itself and do you have a copy of the article in front of you? A. The summation of it by Carr or the my my article? My review? MR. TISI: I'm going to mark it as Exhibit Number 4. (Document marked for
7 8 9 10 11 12 13 14 15	published in the peer-reviewed literature about that, correct? MR. HEGARTY: Objection to the form. Misstates my question. You can answer. THE WITNESS: You correctly summarize what I had indicated in my published work. BY MR. TISI: Q. Okay. So now let's talk about the	6 7 8 9 10 11 12 13 14 15 16	that in my 1992 article. And when I went into the conference in 1994, my views had not changed. BY MR. TISI: Q. Now, in the article itself and do you have a copy of the article in front of you? A. The summation of it by Carr or the my my article? My review? MR. TISI: I'm going to mark it as Exhibit Number 4. (Document marked for identification as Exhibit P4.)
77 8 9 10 11 12 13 14 15 16	community about your point of view, you actually published in the peer-reviewed literature about that, correct? MR. HEGARTY: Objection to the form. Misstates my question. You can answer. THE WITNESS: You correctly summarize what I had indicated in my published work. BY MR. TISI:	6 7 8 9 10 11 12 13 14 15 16 17	that in my 1992 article. And when I went into the conference in 1994, my views had not changed. BY MR. TISI: Q. Now, in the article itself and do you have a copy of the article in front of you? A. The summation of it by Carr or the my my article? My review? MR. TISI: I'm going to mark it as Exhibit Number 4. (Document marked for identification as Exhibit P4.) MR. HEGARTY: Is that P4?
7 8 9 10 11 12 13 14 15	community about your point of view, you actually published in the peer-reviewed literature about that, correct? MR. HEGARTY: Objection to the form. Misstates my question. You can answer. THE WITNESS: You correctly summarize what I had indicated in my published work. BY MR. TISI: Q. Okay. So now let's talk about the Carr, the ISRTP conference.	6 7 8 9 10 11 12 13 14 15 16 17 18	that in my 1992 article. And when I went into the conference in 1994, my views had not changed. BY MR. TISI: Q. Now, in the article itself and do you have a copy of the article in front of you? A. The summation of it by Carr or the my my article? My review? MR. TISI: I'm going to mark it as Exhibit Number 4. (Document marked for identification as Exhibit P4.) MR. HEGARTY: Is that P4? MR. TISI: P4.
7 8 9 10 11 12 13 14 15 16 17 18	community about your point of view, you actually published in the peer-reviewed literature about that, correct? MR. HEGARTY: Objection to the form. Misstates my question. You can answer. THE WITNESS: You correctly summarize what I had indicated in my published work. BY MR. TISI: Q. Okay. So now let's talk about the Carr, the ISRTP conference.	6 7 8 9 10 11 12 13 14 15 16 17	that in my 1992 article. And when I went into the conference in 1994, my views had not changed. BY MR. TISI: Q. Now, in the article itself and do you have a copy of the article in front of you? A. The summation of it by Carr or the my my article? My review? MR. TISI: I'm going to mark it as Exhibit Number 4. (Document marked for identification as Exhibit P4.) MR. HEGARTY: Is that P4? MR. TISI: P4.
7 8 9 10 11 12 13 14 15 16 17 18	community about your point of view, you actually published in the peer-reviewed literature about that, correct? MR. HEGARTY: Objection to the form. Misstates my question. You can answer. THE WITNESS: You correctly summarize what I had indicated in my published work. BY MR. TISI: Q. Okay. So now let's talk about the Carr, the ISRTP conference. You were asked to attend that meeting, correct?	6 7 8 9 10 11 12 13 14 15 16 17 18	that in my 1992 article. And when I went into the conference in 1994, my views had not changed. BY MR. TISI: Q. Now, in the article itself and do you have a copy of the article in front of you? A. The summation of it by Carr or the my my article? My review? MR. TISI: I'm going to mark it as Exhibit Number 4. (Document marked for identification as Exhibit P4.) MR. HEGARTY: Is that P4? MR. TISI: P4.
7 8 9 10 11 12 13 14 15 16 17 18 19	community about your point of view, you actually published in the peer-reviewed literature about that, correct? MR. HEGARTY: Objection to the form. Misstates my question. You can answer. THE WITNESS: You correctly summarize what I had indicated in my published work. BY MR. TISI: Q. Okay. So now let's talk about the Carr, the ISRTP conference. You were asked to attend that meeting, correct? A. Yes.	6 7 8 9 10 11 12 13 14 15 16 17 18	that in my 1992 article. And when I went into the conference in 1994, my views had not changed. BY MR. TISI: Q. Now, in the article itself and do you have a copy of the article in front of you? A. The summation of it by Carr or the my my article? My review? MR. TISI: I'm going to mark it as Exhibit Number 4. (Document marked for identification as Exhibit P4.) MR. HEGARTY: Is that P4? MR. TISI: P4. MR. HEGARTY: So we don't have
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	community about your point of view, you actually published in the peer-reviewed literature about that, correct? MR. HEGARTY: Objection to the form. Misstates my question. You can answer. THE WITNESS: You correctly summarize what I had indicated in my published work. BY MR. TISI: Q. Okay. So now let's talk about the Carr, the ISRTP conference. You were asked to attend that meeting, correct? A. Yes.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	that in my 1992 article. And when I went into the conference in 1994, my views had not changed. BY MR. TISI: Q. Now, in the article itself and do you have a copy of the article in front of you? A. The summation of it by Carr or the my my article? My review? MR. TISI: I'm going to mark it as Exhibit Number 4. (Document marked for identification as Exhibit P4.) MR. HEGARTY: Is that P4? MR. TISI: P4. MR. HEGARTY: So we don't have two 4s.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	community about your point of view, you actually published in the peer-reviewed literature about that, correct? MR. HEGARTY: Objection to the form. Misstates my question. You can answer. THE WITNESS: You correctly summarize what I had indicated in my published work. BY MR. TISI: Q. Okay. So now let's talk about the Carr, the ISRTP conference. You were asked to attend that meeting, correct? A. Yes. Q. Okay. Is it your understanding that	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	that in my 1992 article. And when I went into the conference in 1994, my views had not changed. BY MR. TISI: Q. Now, in the article itself and do you have a copy of the article in front of you? A. The summation of it by Carr or the my my article? My review? MR. TISI: I'm going to mark it as Exhibit Number 4. (Document marked for identification as Exhibit P4.) MR. HEGARTY: Is that P4? MR. TISI: P4. MR. HEGARTY: So we don't have two 4s. THE WITNESS: So that's the

1	Page 438	1	Page 440 MR. HEGARTY: Objection to
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	MR. HEGARTY: I trust you.	$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	form.
	THE WITNESS: Yes, that's	_	
3	this. Yes, that's the summary. The		BY MR. TISI:
4	summary by Rapporteur Jelleff Carr. BY MR. TISI:	4	Q. Okay. Did you ultimately write a
5			full review of what it was that you that you
6	Q. Now, in here it says on page 215		presented at the meeting in 2014?
	on the left-hand side, it says:	7	A. Yes.
8	"Dr. Hartge (National Cancer	8	Q. Okay. In fact, just to be just
	Institute) and Dr. Harlow (Harvard University)		to be clear, the only reference in this article
	presented a review of epidemiologic studies		was was to whom?
	including their own original studies pertaining	11	A. Dr. Rothman.
	to perineal talc exposure and ovarian cancer	12	Q. Okay. Somebody who counsel implied
	risk."		may have been statistically unsophisticated.
14	A. Can you show me where that is,	14	Would you ever classify Dr. Rothman
	please?		or yourself as statistically unsophisticated?
16	Q. On the left-hand side.	16	MR. HEGARTY: Objection to the
17	A. Yeah.	17	form.
18	Q. The last full paragraph on page 215.	18	THE WITNESS: No.
19	A. Oh, 215. I'm sorry.	19	BY MR. TISI:
20	Okay. Dr. Hartge and Dr. Harlow. I	20	Q. Okay. Between the two of you, would
21	got the paragraph. Go ahead.	21	you maybe have published perhaps anywhere between
22	Q. Did this article at all explain what	22	500 and a thousand articles in the peer-reviewed
23	your presentation was so that people subsequent to	23	literature?
24	this hearing could hear about your presentation	24	MR. HEGARTY: Objection to
	Page 439		Page 441
1	about the risks?	1	form.
2	MR. HEGARTY: Objection to the	2	THE WITNESS: Yes.
3	form.	3	BY MR. TISI:
4	THE WITNESS: No.	4	Q. Okay. He's published textbooks and
5	BY MR. TISI:	5	the textbooks that are used in medical schools
6	Q. Okay.	6	throughout the country?
7	A. There was nothing other than	7	A. And in schools of public health
8	indicating that we presented original research	8	MR. HEGARTY: Objection to
	Q. Okay.	9	form.
9	• •		
9 10	A and that the studies reviewed	10	THE WITNESS: across the
10		10 11	
10 11	brought to light the many interpretative	11	THE WITNESS: across the country. BY MR. TISI:
10 11 12	brought to light the many interpretative difficulties of epidemiology as an observational	11 12	country. BY MR. TISI:
10 11 12 13	brought to light the many interpretative difficulties of epidemiology as an observational science and are detailed in the papers by Harlow	11 12 13	country. BY MR. TISI: Q. Okay. Now, it talks about at the
10 11 12 13 14	brought to light the many interpretative difficulties of epidemiology as an observational science and are detailed in the papers by Harlow and Hartge appear in this issue of the journal.	11 12 13 14	country. BY MR. TISI: Q. Okay. Now, it talks about at the end here, it says:
10 11 12 13 14 15	brought to light the many interpretative difficulties of epidemiology as an observational science and are detailed in the papers by Harlow and Hartge appear in this issue of the journal. They only said they only put into	11 12 13 14 15	country. BY MR. TISI: Q. Okay. Now, it talks about at the end here, it says: "The possibility of an association
10 11 12 13 14 15 16	brought to light the many interpretative difficulties of epidemiology as an observational science and are detailed in the papers by Harlow and Hartge appear in this issue of the journal. They only said they only put into this review that all we talked about were the	11 12 13 14 15 16	country. BY MR. TISI: Q. Okay. Now, it talks about at the end here, it says: "The possibility of an association of talc exposure and ovarian cancer is an
10 11 12 13 14 15 16 17	brought to light the many interpretative difficulties of epidemiology as an observational science and are detailed in the papers by Harlow and Hartge appear in this issue of the journal. They only said they only put into this review that all we talked about were the concerns.	11 12 13 14 15 16 17	country. BY MR. TISI: Q. Okay. Now, it talks about at the end here, it says: "The possibility of an association of talc exposure and ovarian cancer is an important hypothesis of potential public health
10 11 12 13 14 15 16 17 18	brought to light the many interpretative difficulties of epidemiology as an observational science and are detailed in the papers by Harlow and Hartge appear in this issue of the journal. They only said they only put into this review that all we talked about were the concerns. Q. That doesn't	11 12 13 14 15 16 17 18	country. BY MR. TISI: Q. Okay. Now, it talks about at the end here, it says: "The possibility of an association of talc exposure and ovarian cancer is an important hypothesis of potential public health importance. However, this association remains
10 11 12 13 14 15 16 17 18	brought to light the many interpretative difficulties of epidemiology as an observational science and are detailed in the papers by Harlow and Hartge appear in this issue of the journal. They only said they only put into this review that all we talked about were the concerns. Q. That doesn't A. Whereas, we talked about the	11 12 13 14 15 16 17 18 19	country. BY MR. TISI: Q. Okay. Now, it talks about at the end here, it says: "The possibility of an association of talc exposure and ovarian cancer is an important hypothesis of potential public health importance. However, this association remains research hypothesis whose verification or
10 11 12 13 14 15 16 17 18 19 20	brought to light the many interpretative difficulties of epidemiology as an observational science and are detailed in the papers by Harlow and Hartge appear in this issue of the journal. They only said they only put into this review that all we talked about were the concerns. Q. That doesn't A. Whereas, we talked about the evidence in a balanced and, I believe,	11 12 13 14 15 16 17 18 19 20	country. BY MR. TISI: Q. Okay. Now, it talks about at the end here, it says: "The possibility of an association of talc exposure and ovarian cancer is an important hypothesis of potential public health importance. However, this association remains a research hypothesis whose verification or falsification needs additional study."
10 11 12 13 14 15 16 17 18 19 20 21	brought to light the many interpretative difficulties of epidemiology as an observational science and are detailed in the papers by Harlow and Hartge appear in this issue of the journal. They only said they only put into this review that all we talked about were the concerns. Q. That doesn't A. Whereas, we talked about the evidence in a balanced and, I believe, academically appropriate manner.	11 12 13 14 15 16 17 18 19 20 21	country. BY MR. TISI: Q. Okay. Now, it talks about at the end here, it says: "The possibility of an association of talc exposure and ovarian cancer is an important hypothesis of potential public health importance. However, this association remains research hypothesis whose verification or falsification needs additional study." And it goes on to say that there is
10 11 12 13 14 15 16 17 18 19 20 21 22	brought to light the many interpretative difficulties of epidemiology as an observational science and are detailed in the papers by Harlow and Hartge appear in this issue of the journal. They only said they only put into this review that all we talked about were the concerns. Q. That doesn't A. Whereas, we talked about the evidence in a balanced and, I believe, academically appropriate manner. Q. Did you feel that this summary was	11 12 13 14 15 16 17 18 19 20 21 22	country. BY MR. TISI: Q. Okay. Now, it talks about at the end here, it says: "The possibility of an association of talc exposure and ovarian cancer is an important hypothesis of potential public health importance. However, this association remains a research hypothesis whose verification or falsification needs additional study." And it goes on to say that there is "epidemiologic study have provided weak and
10 11 12 13 14 15 16 17 18 19 20 21 22	brought to light the many interpretative difficulties of epidemiology as an observational science and are detailed in the papers by Harlow and Hartge appear in this issue of the journal. They only said they only put into this review that all we talked about were the concerns. Q. That doesn't A. Whereas, we talked about the evidence in a balanced and, I believe, academically appropriate manner. Q. Did you feel that this summary was fair and balanced?	11 12 13 14 15 16 17 18 19 20 21 22 23	country. BY MR. TISI: Q. Okay. Now, it talks about at the end here, it says: "The possibility of an association of talc exposure and ovarian cancer is an important hypothesis of potential public health importance. However, this association remains a research hypothesis whose verification or falsification needs additional study." And it goes on to say that there is

	Page 442		Page 444
1	yield any additional concern.	1	Q. And you'll see at the very first
2	Do you see that at the very end of	2	part of it, it says it says:
3	the paragraph?	3	"Presented, in part"
4	A. Yes.	4	Footnote 1 says:
5	"For epidemiology, further	5	"Presented, in part, at the
6	refinements may be possible in the selection and	6	International Society of Regulatory Toxicology and
7	characterization of control subjects and in the	7	Pharmacology," referring to this meeting, correct?
8	accounting of possible confounders and biases.	8	A. Yes.
9	However, epidemiologic studies have provided weak	9	Q. Okay. And it was your goal here is
10	and conflicting risk signals for this association,	10	to to communicate what it was you were trying
11	and it is unlikely that further studies may prove	11	to communicate at that meeting, correct?
12	adequate to raise concern at a level sufficient to	12	MR. HEGARTY: Objection to the
13	warrant regulatory or public health measures."	13	form.
14	Q. In fact in fact, after this	14	THE WITNESS: Yes.
15	particular study, there were literally dozens of	15	BY MR. TISI:
16	studies that were funded by by institutions	16	Q. Okay. And if you look, it talks
17	throughout the country, including National Cancer	17	about, for example, on the right-hand side studies
18	Institute, correct?	18	which showed talc particles in the ovaries going
19	MR. HEGARTY: Objection to the	19	back to 1979, a study by Henderson in 1979,
20	form.	20	correct?
21	THE WITNESS: There were.	21	A. Yes.
22	There were.	22	Q. Okay. You didn't have to be you
23	BY MR. TISI:	23	didn't have to be a pathologist to read that
24	Q. Do you think	24	study, right?
	Page 443		Page 445
1	A. But I'd also like to state that in	1	MR. HEGARTY: Objection to the
2	this article, we actually did do an assessment of	2	form.
3	*	3	THE WITNESS: Yes.
	date and all of the studies, except one, showed a	4	BY MR. TISI:
5	positive association.	5	Q. Okay. You talked about asbestos on
6	Q. Okay.	6	the next page and the fact that it could
7		7	potentially migrate, correct?
1	that further studies may prove adequate to raise	8	MR. HEGARTY: Objection to
9	concern at a level sufficient to warrant	9	form.
1	regulatory is not necessary is or even to	10	THE WITNESS: Yes.
1	suggest that we need is to suggest that no further		
	studies are needed because the evidence is not	12	Q. Okay. You talked about biologic
	there. When, in fact, in the article that I		plausibility of of asbestos causing ovarian
	present in my presentation, I actually showed		
1	number of studies, not just mine, that showed	15	MR. HEGARTY: Objection to
16	reasonable consistency and has been has been	16	form.
17	1	17	THE WITNESS: I did.
18	•		BY MR. TISI:
	which is your review article	19	Q. Okay. You talked about and you
20			finally came out with and on page 256 on the
21	Q that came out of this.	21	
22	`	22	A. Uh-huh.
23	identification as Exhibit P5.) BY MR. TISI:	23 24	Q. You say:
			"Because the risk of any one outcome

	D 446		D 440
1	Page 446 is dependent upon both the frequency and length of	1	Page 448
	exposure."		time was whether or not they adjusted for these confounders, true?
		3	•
3	You talked about why you did both of	_	
	those things, correct?	4	Q. In fact, you didn't have to be do
5	A. Yes.		a complete comprehensive review of all the medical
6	Q. Is one of the flaws in the studies		literature of douching to know that you had to
l	that you've looked at to date that they either		adjust for douching, correct?
	measured length or frequency but not both	8	MR. HEGARTY: Objection to the
l	together?	9	form.
10	MR. HEGARTY: Objection to	10	THE WITNESS: To know that I
11	form.	11	need to determine whether adjusting for
12	THE WITNESS: I believe	12	douching would impact my estimates.
13	that's a limitation.		BY MR. TISI:
	BY MR. TISI:	14	Q. Okay. You talk about in this
15	Q. Okay. But you tried to do that in	15	
l	your own studies, correct?		exposures.
17	A. Yes.	17	Do you see that?
18	Q. And what did you find in your own	18	A. Where are we talking about now?
19	studies in the 1990s?	19	Q. On page 257.
20	A. We found the dose response	20	A. Oh, 257. Where are we? Where are
21	Q. Okay.	21	
22	A when there was an open genital	22	Q. On page 257.
	tract.	23	A. Yes.
24	Q. And, in fact, you put that in your	24	Q. The bottom to the next page,
l			
1	Page 447	1	Page 449
l	article here. It says:		correct?
2	article here. It says: "There was a sizable increase in	2	correct? A. Where it starts "Thus the basic
3	article here. It says: "There was a sizable increase in risk in women with more than 10,000 applications	2 3	correct? A. Where it starts "Thus the basic design"?
2 3 4	article here. It says: "There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate	2 3 4	correct? A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It
2 3 4 5	article here. It says: "There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status,	2 3 4 5	correct? A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure."
2 3 4 5 6	article here. It says: "There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status, douching, weight, and use of sanitary napkins."	2 3 4 5 6	correct? A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure." On the bottom right-hand side.
2 3 4 5 6 7	article here. It says: "There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status, douching, weight, and use of sanitary napkins." Do you see that?	2 3 4 5 6 7	correct? A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure." On the bottom right-hand side. A. Oh, I'm sorry. Got it.
2 3 4 5 6 7 8	article here. It says: "There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status, douching, weight, and use of sanitary napkins." Do you see that? A. Yes, I do.	2 3 4 5 6 7 8	correct? A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure." On the bottom right-hand side. A. Oh, I'm sorry. Got it. Q. On page 257 going on to the next
2 3 4 5 6 7 8 9	article here. It says: "There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status, douching, weight, and use of sanitary napkins." Do you see that? A. Yes, I do. Q. Now, counsel asked you whether or	2 3 4 5 6 7 8 9	correct? A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure." On the bottom right-hand side. A. Oh, I'm sorry. Got it. Q. On page 257 going on to the next page.
2 3 4 5 6 7 8 9	article here. It says: "There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status, douching, weight, and use of sanitary napkins." Do you see that? A. Yes, I do. Q. Now, counsel asked you whether or not you looked at the literature relating to	2 3 4 5 6 7 8 9	correct? A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure." On the bottom right-hand side. A. Oh, I'm sorry. Got it. Q. On page 257 going on to the next page. A. Yes. Yes, yes, yes. I'm there.
2 3 4 5 6 7 8 9 10 11	article here. It says: "There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status, douching, weight, and use of sanitary napkins." Do you see that? A. Yes, I do. Q. Now, counsel asked you whether or not you looked at the literature relating to things like douching, weight, and the risks of	2 3 4 5 6 7 8 9 10 11	correct? A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure." On the bottom right-hand side. A. Oh, I'm sorry. Got it. Q. On page 257 going on to the next page. A. Yes. Yes, yes, yes. I'm there. I'm there. Yes.
2 3 4 5 6 7 8 9 10 11 12	article here. It says: "There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status, douching, weight, and use of sanitary napkins." Do you see that? A. Yes, I do. Q. Now, counsel asked you whether or not you looked at the literature relating to things like douching, weight, and the risks of ovarian cancer, true?	2 3 4 5 6 7 8 9 10 11 12	correct? A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure." On the bottom right-hand side. A. Oh, I'm sorry. Got it. Q. On page 257 going on to the next page. A. Yes. Yes, yes, yes. I'm there. I'm there. Yes. Q. Now, you offer the opinion that
2 3 4 5 6 7 8 9 10 11 12 13	article here. It says: "There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status, douching, weight, and use of sanitary napkins." Do you see that? A. Yes, I do. Q. Now, counsel asked you whether or not you looked at the literature relating to things like douching, weight, and the risks of ovarian cancer, true? MR. HEGARTY: Objection to the	2 3 4 5 6 7 8 9 10 11 12 13	correct? A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure." On the bottom right-hand side. A. Oh, I'm sorry. Got it. Q. On page 257 going on to the next page. A. Yes. Yes, yes, yes. I'm there. I'm there. Yes. Q. Now, you offer the opinion that today that misclassification because of recall
2 3 4 5 6 7 8 9 10 11 12 13 14	article here. It says: "There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status, douching, weight, and use of sanitary napkins." Do you see that? A. Yes, I do. Q. Now, counsel asked you whether or not you looked at the literature relating to things like douching, weight, and the risks of ovarian cancer, true? MR. HEGARTY: Objection to the form.	2 3 4 5 6 7 8 9 10 11 12 13 14	A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure." On the bottom right-hand side. A. Oh, I'm sorry. Got it. Q. On page 257 going on to the next page. A. Yes. Yes, yes, yes. I'm there. I'm there. Yes. Q. Now, you offer the opinion that today that misclassification because of recall bias differentially in the case-control studies
2 3 4 5 6 7 8 9 10 11 12 13 14 15	article here. It says: "There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status, douching, weight, and use of sanitary napkins." Do you see that? A. Yes, I do. Q. Now, counsel asked you whether or not you looked at the literature relating to things like douching, weight, and the risks of ovarian cancer, true? MR. HEGARTY: Objection to the form. THE WITNESS: In in	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure." On the bottom right-hand side. A. Oh, I'm sorry. Got it. Q. On page 257 going on to the next page. A. Yes. Yes, yes, yes. I'm there. I'm there. Yes. Q. Now, you offer the opinion that today that misclassification because of recall bias differentially in the case-control studies might be a problem if it was not a routine or
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	article here. It says: "There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status, douching, weight, and use of sanitary napkins." Do you see that? A. Yes, I do. Q. Now, counsel asked you whether or not you looked at the literature relating to things like douching, weight, and the risks of ovarian cancer, true? MR. HEGARTY: Objection to the form. THE WITNESS: In in preparation of the report that I did?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure." On the bottom right-hand side. A. Oh, I'm sorry. Got it. Q. On page 257 going on to the next page. A. Yes. Yes, yes, yes. I'm there. I'm there. Yes. Q. Now, you offer the opinion that today that misclassification because of recall bias differentially in the case-control studies might be a problem if it was not a routine or habit of a woman, but if something is routine, it
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	article here. It says: "There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status, douching, weight, and use of sanitary napkins." Do you see that? A. Yes, I do. Q. Now, counsel asked you whether or not you looked at the literature relating to things like douching, weight, and the risks of ovarian cancer, true? MR. HEGARTY: Objection to the form. THE WITNESS: In in preparation of the report that I did? BY MR. TISI:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure." On the bottom right-hand side. A. Oh, I'm sorry. Got it. Q. On page 257 going on to the next page. A. Yes. Yes, yes, yes. I'm there. I'm there. Yes. Q. Now, you offer the opinion that today that misclassification because of recall bias differentially in the case-control studies might be a problem if it was not a routine or habit of a woman, but if something is routine, it would be not as much of a problem, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	article here. It says: "There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status, douching, weight, and use of sanitary napkins." Do you see that? A. Yes, I do. Q. Now, counsel asked you whether or not you looked at the literature relating to things like douching, weight, and the risks of ovarian cancer, true? MR. HEGARTY: Objection to the form. THE WITNESS: In in preparation of the report that I did? BY MR. TISI: Q. Right.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	correct? A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure." On the bottom right-hand side. A. Oh, I'm sorry. Got it. Q. On page 257 going on to the next page. A. Yes. Yes, yes, yes. I'm there. I'm there. Yes. Q. Now, you offer the opinion that today that misclassification because of recall bias differentially in the case-control studies might be a problem if it was not a routine or habit of a woman, but if something is routine, it would be not as much of a problem, correct? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	article here. It says: "There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status, douching, weight, and use of sanitary napkins." Do you see that? A. Yes, I do. Q. Now, counsel asked you whether or not you looked at the literature relating to things like douching, weight, and the risks of ovarian cancer, true? MR. HEGARTY: Objection to the form. THE WITNESS: In in preparation of the report that I did? BY MR. TISI: Q. Right. A. No, I didn't do that for preparation	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	correct? A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure." On the bottom right-hand side. A. Oh, I'm sorry. Got it. Q. On page 257 going on to the next page. A. Yes. Yes, yes, yes. I'm there. I'm there. Yes. Q. Now, you offer the opinion that today that misclassification because of recall bias differentially in the case-control studies might be a problem if it was not a routine or habit of a woman, but if something is routine, it would be not as much of a problem, correct? A. Yes. MR. HEGARTY: Objection to the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	"There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status, douching, weight, and use of sanitary napkins." Do you see that? A. Yes, I do. Q. Now, counsel asked you whether or not you looked at the literature relating to things like douching, weight, and the risks of ovarian cancer, true? MR. HEGARTY: Objection to the form. THE WITNESS: In in preparation of the report that I did? BY MR. TISI: Q. Right. A. No, I didn't do that for preparation of the report. I obviously did that in deciding	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure." On the bottom right-hand side. A. Oh, I'm sorry. Got it. Q. On page 257 going on to the next page. A. Yes. Yes, yes, yes. I'm there. I'm there. Yes. Q. Now, you offer the opinion that today that misclassification because of recall bias differentially in the case-control studies might be a problem if it was not a routine or habit of a woman, but if something is routine, it would be not as much of a problem, correct? A. Yes. MR. HEGARTY: Objection to the form.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	"There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status, douching, weight, and use of sanitary napkins." Do you see that? A. Yes, I do. Q. Now, counsel asked you whether or not you looked at the literature relating to things like douching, weight, and the risks of ovarian cancer, true? MR. HEGARTY: Objection to the form. THE WITNESS: In in preparation of the report that I did? BY MR. TISI: Q. Right. A. No, I didn't do that for preparation of the report. I obviously did that in deciding what potential covariates we should adjust for in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure." On the bottom right-hand side. A. Oh, I'm sorry. Got it. Q. On page 257 going on to the next page. A. Yes. Yes, yes, yes. I'm there. I'm there. Yes. Q. Now, you offer the opinion that today that misclassification because of recall bias differentially in the case-control studies might be a problem if it was not a routine or habit of a woman, but if something is routine, it would be not as much of a problem, correct? A. Yes. MR. HEGARTY: Objection to the form. BY MR. TISI:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	"There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status, douching, weight, and use of sanitary napkins." Do you see that? A. Yes, I do. Q. Now, counsel asked you whether or not you looked at the literature relating to things like douching, weight, and the risks of ovarian cancer, true? MR. HEGARTY: Objection to the form. THE WITNESS: In in preparation of the report that I did? BY MR. TISI: Q. Right. A. No, I didn't do that for preparation of the report. I obviously did that in deciding what potential covariates we should adjust for in our analyses in this, in the 1992 paper.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure." On the bottom right-hand side. A. Oh, I'm sorry. Got it. Q. On page 257 going on to the next page. A. Yes. Yes, yes, yes. I'm there. I'm there. Yes. Q. Now, you offer the opinion that today that misclassification because of recall bias differentially in the case-control studies might be a problem if it was not a routine or habit of a woman, but if something is routine, it would be not as much of a problem, correct? A. Yes. MR. HEGARTY: Objection to the form. BY MR. TISI: Q. Is that something you wrote right
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	"There was a sizable increase in risk in women with more than 10,000 applications of talc which persisted after multivariate adjustment for parity, education, marital status, douching, weight, and use of sanitary napkins." Do you see that? A. Yes, I do. Q. Now, counsel asked you whether or not you looked at the literature relating to things like douching, weight, and the risks of ovarian cancer, true? MR. HEGARTY: Objection to the form. THE WITNESS: In in preparation of the report that I did? BY MR. TISI: Q. Right. A. No, I didn't do that for preparation of the report. I obviously did that in deciding what potential covariates we should adjust for in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Where it starts "Thus the basic design"? Q. On the very bottom. I'm sorry. It says "Recollection of Talc Exposure." On the bottom right-hand side. A. Oh, I'm sorry. Got it. Q. On page 257 going on to the next page. A. Yes. Yes, yes, yes. I'm there. I'm there. Yes. Q. Now, you offer the opinion that today that misclassification because of recall bias differentially in the case-control studies might be a problem if it was not a routine or habit of a woman, but if something is routine, it would be not as much of a problem, correct? A. Yes. MR. HEGARTY: Objection to the form. BY MR. TISI:

	Page 450		Page 452
1	"Differential misclassification and	1	the meeting.
	random error are most likely to occur if the	2	Q. So the point is here do you feel
1	question is too long or too vague and if the		that the if anybody were to first of all,
	behavior itself is intermittent and trivial."		Dr. Carr was not an employee of the FDA, the
5	A. Correct.		person who took these minutes, correct?
6	Q. Okay. Do you see that?	6	MR. HEGARTY: Objection to the
7	A. Yes.	7	form.
8	Q. Okay. And you also noted on the top	8	THE WITNESS: I have no idea
	part that the risk	9	who Dr I don't even know if it's
10	A. Where are you referring to now?	10	Dr. Carr. I don't know who that person
11	Q. In the chart, Table 3.	11	was.
12	A. Oh, Table 3, yes.	l	BY MR. TISI:
13	Q. That people with prior to tubal	13	Q. Was there anything in the
	ligation, hysterectomy, and during ovulatory	l	presentations that were made that changed your
	periods only, the risk for greater than 10,000		view that women ought to be that risks that
	applications was 2.8.		the risks ought to be mitigated based upon at
17	Do you see that?		least what's available 30, 40 years ago
18	A. Yes.	18	MR. HEGARTY: Objection.
19	Q. Okay. Now, at the summary of your	l	BY MR. TISI:
	article, you indicated what you thought was the	20	Q after going to this meeting at
	range of relative risks based upon the literature	l	the FDA?
	existed at that time, correct?	22	MR. HEGARTY: Objection to the
23	A. Yes.	23	form.
24	MR. HEGARTY: Objection to the	24	THE WITNESS: Can you repeat
	Page 451		Page 453
1	form.	1	the question? I'm sorry.
2	BY MR. TISI:	2	BY MR. TISI:
3	Q. You mentioned several times today	3	Q. Yeah.
4	that you thought that risk was between 1.0, 1.8,	4	Is there anything that you heard at
5	correct?		
6) >	that meeting that changed your view expressed in
1	A. Yes.	l .	your 1992 letter
7	A. Yes. MR. HEGARTY: Objection to the	6	
7 8	MR. HEGARTY: Objection to the	6	your 1992 letter
8	MR. HEGARTY: Objection to the	6 7	your 1992 letter A. Article. Q article that women should not use
8	MR. HEGARTY: Objection to the form. BY MR. TISI:	6 7 8	your 1992 letter A. Article. Q article that women should not use talcum powder products because of the risk of
8 9	MR. HEGARTY: Objection to the form. BY MR. TISI: Q. You wrote that back in 1995,	6 7 8 9	your 1992 letter A. Article. Q article that women should not use talcum powder products because of the risk of
8 9 10	MR. HEGARTY: Objection to the form. BY MR. TISI: Q. You wrote that back in 1995,	6 7 8 9 10	your 1992 letter A. Article. Q article that women should not use talcum powder products because of the risk of cancer?
8 9 10 11	MR. HEGARTY: Objection to the form. BY MR. TISI: Q. You wrote that back in 1995, correct, in this article?	6 7 8 9 10 11	your 1992 letter A. Article. Q article that women should not use talcum powder products because of the risk of cancer? A. There was nothing
8 9 10 11 12 13 14	MR. HEGARTY: Objection to the form. BY MR. TISI: Q. You wrote that back in 1995, correct, in this article? MR. HEGARTY: Objection to the form.	6 7 8 9 10 11 12 13 14	your 1992 letter A. Article. Q article that women should not use talcum powder products because of the risk of cancer? A. There was nothing MR. HEGARTY: Objection to form. THE WITNESS: that changed
8 9 10 11 12 13	MR. HEGARTY: Objection to the form. BY MR. TISI: Q. You wrote that back in 1995, correct, in this article? MR. HEGARTY: Objection to the form. THE WITNESS: And I believe I presented it at the at the conference	6 7 8 9 10 11 12 13	A. Article. Q article that women should not use talcum powder products because of the risk of cancer? A. There was nothing MR. HEGARTY: Objection to form. THE WITNESS: that changed my view that women should curtail, if not
8 9 10 11 12 13 14 15 16	MR. HEGARTY: Objection to the form. BY MR. TISI: Q. You wrote that back in 1995, correct, in this article? MR. HEGARTY: Objection to the form. THE WITNESS: And I believe I presented it at the at the conference as well.	6 7 8 9 10 11 12 13 14 15 16	your 1992 letter A. Article. Q article that women should not use talcum powder products because of the risk of cancer? A. There was nothing MR. HEGARTY: Objection to form. THE WITNESS: that changed my view that women should curtail, if not completely abstain from, perineal
8 9 10 11 12 13 14 15 16 17	MR. HEGARTY: Objection to the form. BY MR. TISI: Q. You wrote that back in 1995, correct, in this article? MR. HEGARTY: Objection to the form. THE WITNESS: And I believe I presented it at the at the conference as well. BY MR. TISI:	6 7 8 9 10 11 12 13 14 15	your 1992 letter A. Article. Q article that women should not use talcum powder products because of the risk of cancer? A. There was nothing MR. HEGARTY: Objection to form. THE WITNESS: that changed my view that women should curtail, if not completely abstain from, perineal application of talcum powder.
8 9 10 11 12 13 14 15 16 17 18	MR. HEGARTY: Objection to the form. BY MR. TISI: Q. You wrote that back in 1995, correct, in this article? MR. HEGARTY: Objection to the form. THE WITNESS: And I believe I presented it at the at the conference as well. BY MR. TISI: Q. That wasn't in the summary of the	6 7 8 9 10 11 12 13 14 15 16 17	your 1992 letter A. Article. Q article that women should not use talcum powder products because of the risk of cancer? A. There was nothing MR. HEGARTY: Objection to form. THE WITNESS: that changed my view that women should curtail, if not completely abstain from, perineal application of talcum powder. BY MR. TISI:
8 9 10 11 12 13 14 15 16 17 18	MR. HEGARTY: Objection to the form. BY MR. TISI: Q. You wrote that back in 1995, correct, in this article? MR. HEGARTY: Objection to the form. THE WITNESS: And I believe I presented it at the at the conference as well. BY MR. TISI: Q. That wasn't in the summary of the of the conference, was it?	6 7 8 9 10 11 12 13 14 15 16 17 18	your 1992 letter A. Article. Q article that women should not use talcum powder products because of the risk of cancer? A. There was nothing MR. HEGARTY: Objection to form. THE WITNESS: that changed my view that women should curtail, if not completely abstain from, perineal application of talcum powder. BY MR. TISI: Q. In fact, you reiterated that in your
8 9 10 11 12 13 14 15 16 17 18 19 20	MR. HEGARTY: Objection to the form. BY MR. TISI: Q. You wrote that back in 1995, correct, in this article? MR. HEGARTY: Objection to the form. THE WITNESS: And I believe I presented it at the at the conference as well. BY MR. TISI: Q. That wasn't in the summary of the of the conference, was it? A. No, but it was in the minutes of	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	your 1992 letter A. Article. Q article that women should not use talcum powder products because of the risk of cancer? A. There was nothing MR. HEGARTY: Objection to form. THE WITNESS: that changed my view that women should curtail, if not completely abstain from, perineal application of talcum powder. BY MR. TISI: Q. In fact, you reiterated that in your 1999 article, correct?
8 9 10 11 12 13 14 15 16 17 18 19 20	MR. HEGARTY: Objection to the form. BY MR. TISI: Q. You wrote that back in 1995, correct, in this article? MR. HEGARTY: Objection to the form. THE WITNESS: And I believe I presented it at the at the conference as well. BY MR. TISI: Q. That wasn't in the summary of the of the conference, was it?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	your 1992 letter A. Article. Q article that women should not use talcum powder products because of the risk of cancer? A. There was nothing MR. HEGARTY: Objection to form. THE WITNESS: that changed my view that women should curtail, if not completely abstain from, perineal application of talcum powder. BY MR. TISI: Q. In fact, you reiterated that in your
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. HEGARTY: Objection to the form. BY MR. TISI: Q. You wrote that back in 1995, correct, in this article? MR. HEGARTY: Objection to the form. THE WITNESS: And I believe I presented it at the at the conference as well. BY MR. TISI: Q. That wasn't in the summary of the of the conference, was it? A. No, but it was in the minutes of the what do they call it? Minutes of the meeting.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	your 1992 letter A. Article. Q article that women should not use talcum powder products because of the risk of cancer? A. There was nothing MR. HEGARTY: Objection to form. THE WITNESS: that changed my view that women should curtail, if not completely abstain from, perineal application of talcum powder. BY MR. TISI: Q. In fact, you reiterated that in your 1999 article, correct? MR. HEGARTY: Objection to form.
8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. HEGARTY: Objection to the form. BY MR. TISI: Q. You wrote that back in 1995, correct, in this article? MR. HEGARTY: Objection to the form. THE WITNESS: And I believe I presented it at the at the conference as well. BY MR. TISI: Q. That wasn't in the summary of the of the conference, was it? A. No, but it was in the minutes of the what do they call it? Minutes of the meeting. Q. Right.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	your 1992 letter A. Article. Q article that women should not use talcum powder products because of the risk of cancer? A. There was nothing MR. HEGARTY: Objection to form. THE WITNESS: that changed my view that women should curtail, if not completely abstain from, perineal application of talcum powder. BY MR. TISI: Q. In fact, you reiterated that in your 1999 article, correct? MR. HEGARTY: Objection to

	Dec. 454	Do.: 45
1	Page 454 you that article, Exhibit Number 5.	Page 45 1 A. It means that "Excludes applications
$\frac{1}{2}$	MR. HEGARTY: I have Exhibit	2 following hysterectomy or tubal ligation and
3	Number 6, P6.	3 applications during pregnancy and periods of oral
4	MR. TISI: Oh. Exhibit	4 contraceptive use."
5	Number 6. I'm sorry.	5 Q. Okay. Why did you do that?
6	MR. HEGARTY: I have the last	6 A. Because women would not necessarily
7	article you designated as P5.	7 be ovulating and the idea the potential
8	(Document marked for	8 possibilities that with the talc migrating during
9	identification as Exhibit P6.)	9 ovulatory times, the talc particulates have the
10	•	10 opportunity to embed into the inclusion cysts
11	Q. Okay. This is P6. It's entitled	11 after ovulation.
12	- · · · · · · · · · · · · · · · · · · ·	12 Q. Okay. And so this was a recognition
13	_	13 that there was was this a recognition that
14	Do you see that?	14 there was a biologically plausible mechanism that
15	A. Yes.	15 talc applied perineally could could travel up
16	Q. Now, you were asked several	16 the up the genital tract, reach the ovaries,
17	-	17 and you wanted to test that hypothesis in this
	for plaintiffs.	18 study, correct?
19	You know that, right?	19 MR. HEGARTY: Objection to the
20	A. Yes.	20 form.
21	Q. Again, I'm going to represent to you	21 THE WITNESS: Yes.
	that the first case for ovarian cancer had not	22 BY MR. TISI:
	even been filed until at least 10, 15 years after	23 Q. Okay. And when you looked at
	this article was published.	24 applications with less than 3,000 applications,
	Page 455	
1	Do you have any reason to believe	1 what did you see?
2	that Dr. Cramer was an expert or consultant in	2 A. We saw the highest adjusted odds
		2 A. We saw the highest adjusted odds
3	talc litigation at the time you wrote this	
	talc litigation at the time you wrote this article?	3 ratio being in those that had greater than 10,000
	article?	3 ratio being in those that had greater than 10,000
4		3 ratio being in those that had greater than 10,000 4 applications when limiting this exposure 5 assessment.
4 5	article? MR. HEGARTY: Objection to the	3 ratio being in those that had greater than 10,000 4 applications when limiting this exposure 5 assessment.
4 5 6	article? MR. HEGARTY: Objection to the form.	 3 ratio being in those that had greater than 10,000 4 applications when limiting this exposure 5 assessment. 6 Q. Okay. Did you see a dose response
4 5 6 7	article? MR. HEGARTY: Objection to the form. THE WITNESS: No.	 3 ratio being in those that had greater than 10,000 4 applications when limiting this exposure 5 assessment. 6 Q. Okay. Did you see a dose response 7 when you compared 3,000, 3,000 to 10,000, an
4 5 6 7 8 9	article? MR. HEGARTY: Objection to the form. THE WITNESS: No. BY MR. TISI:	3 ratio being in those that had greater than 10,000 4 applications when limiting this exposure 5 assessment. 6 Q. Okay. Did you see a dose response 7 when you compared 3,000, 3,000 to 10,000, an 8 greater than 10,000?
4 5 6 7 8 9 10	article? MR. HEGARTY: Objection to the form. THE WITNESS: No. BY MR. TISI: Q. Okay. Now, in this article, you	3 ratio being in those that had greater than 10,000 4 applications when limiting this exposure 5 assessment. 6 Q. Okay. Did you see a dose response 7 when you compared 3,000, 3,000 to 10,000, an 8 greater than 10,000? 9 A. The risks
4 5 6 7 8 9 10 11	article? MR. HEGARTY: Objection to the form. THE WITNESS: No. BY MR. TISI: Q. Okay. Now, in this article, you concluded that there was, in fact, a dose response	3 ratio being in those that had greater than 10,000 4 applications when limiting this exposure 5 assessment. 6 Q. Okay. Did you see a dose response 7 when you compared 3,000, 3,000 to 10,000, an 8 greater than 10,000? 9 A. The risks 10 MR. HEGARTY: Objection to the
4 5 6 7 8 9 10 11	article? MR. HEGARTY: Objection to the form. THE WITNESS: No. BY MR. TISI: Q. Okay. Now, in this article, you concluded that there was, in fact, a dose response when considering all application for women	3 ratio being in those that had greater than 10,000 4 applications when limiting this exposure 5 assessment. 6 Q. Okay. Did you see a dose response 7 when you compared 3,000, 3,000 to 10,000, an 8 greater than 10,000? 9 A. The risks 10 MR. HEGARTY: Objection to the 11 form.
4 5 6 7 8 9 10 11 12	article? MR. HEGARTY: Objection to the form. THE WITNESS: No. BY MR. TISI: Q. Okay. Now, in this article, you concluded that there was, in fact, a dose response when considering all application for women particularly with patent tubes, correct? MR. HEGARTY: Objection to the	3 ratio being in those that had greater than 10,000 4 applications when limiting this exposure 5 assessment. 6 Q. Okay. Did you see a dose response 7 when you compared 3,000, 3,000 to 10,000, an 8 greater than 10,000? 9 A. The risks 10 MR. HEGARTY: Objection to the 11 form. 12 THE WITNESS: The risks went
4 5 6 7 8 9 10 11 12 13	article? MR. HEGARTY: Objection to the form. THE WITNESS: No. BY MR. TISI: Q. Okay. Now, in this article, you concluded that there was, in fact, a dose response when considering all application for women particularly with patent tubes, correct? MR. HEGARTY: Objection to the	3 ratio being in those that had greater than 10,000 4 applications when limiting this exposure 5 assessment. 6 Q. Okay. Did you see a dose response 7 when you compared 3,000, 3,000 to 10,000, an 8 greater than 10,000? 9 A. The risks 10 MR. HEGARTY: Objection to the 11 form. 12 THE WITNESS: The risks went 13 from 1.54 to 1.72 to 1.8.
4 5 6 7 8 9 10 11 12 13 14	article? MR. HEGARTY: Objection to the form. THE WITNESS: No. BY MR. TISI: Q. Okay. Now, in this article, you concluded that there was, in fact, a dose response when considering all application for women particularly with patent tubes, correct? MR. HEGARTY: Objection to the form. THE WITNESS: That is	3 ratio being in those that had greater than 10,000 4 applications when limiting this exposure 5 assessment. 6 Q. Okay. Did you see a dose response 7 when you compared 3,000, 3,000 to 10,000, an 8 greater than 10,000? 9 A. The risks 10 MR. HEGARTY: Objection to the 11 form. 12 THE WITNESS: The risks went 13 from 1.54 to 1.72 to 1.8. 14 BY MR. TISI: 15 Q. Were they all statistically 16 significant?
4 5 6 7 8 9 10 11 12 13 14 15 16	article? MR. HEGARTY: Objection to the form. THE WITNESS: No. BY MR. TISI: Q. Okay. Now, in this article, you concluded that there was, in fact, a dose response when considering all application for women particularly with patent tubes, correct? MR. HEGARTY: Objection to the form. THE WITNESS: That is	3 ratio being in those that had greater than 10,000 4 applications when limiting this exposure 5 assessment. 6 Q. Okay. Did you see a dose response 7 when you compared 3,000, 3,000 to 10,000, an 8 greater than 10,000? 9 A. The risks 10 MR. HEGARTY: Objection to the 11 form. 12 THE WITNESS: The risks went 13 from 1.54 to 1.72 to 1.8. 14 BY MR. TISI: 15 Q. Were they all statistically 16 significant? 17 A. The confidence intervals did not
4 5 6 7 8 9 10 11 12 13 14 15 16	article? MR. HEGARTY: Objection to the form. THE WITNESS: No. BY MR. TISI: Q. Okay. Now, in this article, you concluded that there was, in fact, a dose response when considering all application for women particularly with patent tubes, correct? MR. HEGARTY: Objection to the form. THE WITNESS: That is correct.	3 ratio being in those that had greater than 10,000 4 applications when limiting this exposure 5 assessment. 6 Q. Okay. Did you see a dose response 7 when you compared 3,000, 3,000 to 10,000, an 8 greater than 10,000? 9 A. The risks 10 MR. HEGARTY: Objection to the 11 form. 12 THE WITNESS: The risks went 13 from 1.54 to 1.72 to 1.8. 14 BY MR. TISI: 15 Q. Were they all statistically 16 significant? 17 A. The confidence intervals did not 18 included 1.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	article? MR. HEGARTY: Objection to the form. THE WITNESS: No. BY MR. TISI: Q. Okay. Now, in this article, you concluded that there was, in fact, a dose response when considering all application for women particularly with patent tubes, correct? MR. HEGARTY: Objection to the form. THE WITNESS: That is correct. BY MR. TISI:	3 ratio being in those that had greater than 10,000 4 applications when limiting this exposure 5 assessment. 6 Q. Okay. Did you see a dose response 7 when you compared 3,000, 3,000 to 10,000, an 8 greater than 10,000? 9 A. The risks 10 MR. HEGARTY: Objection to the 11 form. 12 THE WITNESS: The risks went 13 from 1.54 to 1.72 to 1.8. 14 BY MR. TISI: 15 Q. Were they all statistically 16 significant? 17 A. The confidence intervals did not 18 included 1. 19 Q. Okay.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	article? MR. HEGARTY: Objection to the form. THE WITNESS: No. BY MR. TISI: Q. Okay. Now, in this article, you concluded that there was, in fact, a dose response when considering all application for women particularly with patent tubes, correct? MR. HEGARTY: Objection to the form. THE WITNESS: That is correct. BY MR. TISI: Q. Would you go to page Table III, please?	3 ratio being in those that had greater than 10,000 4 applications when limiting this exposure 5 assessment. 6 Q. Okay. Did you see a dose response 7 when you compared 3,000, 3,000 to 10,000, an 8 greater than 10,000? 9 A. The risks 10 MR. HEGARTY: Objection to the 11 form. 12 THE WITNESS: The risks went 13 from 1.54 to 1.72 to 1.8. 14 BY MR. TISI: 15 Q. Were they all statistically 16 significant? 17 A. The confidence intervals did not 18 included 1. 19 Q. Okay. 20 A. Not yes, included 1 in all of
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	article? MR. HEGARTY: Objection to the form. THE WITNESS: No. BY MR. TISI: Q. Okay. Now, in this article, you concluded that there was, in fact, a dose response when considering all application for women particularly with patent tubes, correct? MR. HEGARTY: Objection to the form. THE WITNESS: That is correct. BY MR. TISI: Q. Would you go to page Table III, please? A. Uh-huh. Q. It says when you censured patients.	3 ratio being in those that had greater than 10,000 4 applications when limiting this exposure 5 assessment. 6 Q. Okay. Did you see a dose response 7 when you compared 3,000, 3,000 to 10,000, an 8 greater than 10,000? 9 A. The risks 10 MR. HEGARTY: Objection to the 11 form. 12 THE WITNESS: The risks went 13 from 1.54 to 1.72 to 1.8. 14 BY MR. TISI: 15 Q. Were they all statistically 16 significant? 17 A. The confidence intervals did not 18 included 1. 19 Q. Okay. 20 A. Not yes, included 1 in all of 21 them.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	article? MR. HEGARTY: Objection to the form. THE WITNESS: No. BY MR. TISI: Q. Okay. Now, in this article, you concluded that there was, in fact, a dose response when considering all application for women particularly with patent tubes, correct? MR. HEGARTY: Objection to the form. THE WITNESS: That is correct. BY MR. TISI: Q. Would you go to page Table III, please? A. Uh-huh. Q. It says when you censured patients. At the very bottom it says "Application censured."	3 ratio being in those that had greater than 10,000 4 applications when limiting this exposure 5 assessment. 6 Q. Okay. Did you see a dose response 7 when you compared 3,000, 3,000 to 10,000, an 8 greater than 10,000? 9 A. The risks 10 MR. HEGARTY: Objection to the 11 form. 12 THE WITNESS: The risks went 13 from 1.54 to 1.72 to 1.8. 14 BY MR. TISI: 15 Q. Were they all statistically 16 significant? 17 A. The confidence intervals did not 18 included 1. 19 Q. Okay. 20 A. Not yes, included 1 in all of 21 them. 22 Q. Now, counsel was asking questions
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	article? MR. HEGARTY: Objection to the form. THE WITNESS: No. BY MR. TISI: Q. Okay. Now, in this article, you concluded that there was, in fact, a dose response when considering all application for women particularly with patent tubes, correct? MR. HEGARTY: Objection to the form. THE WITNESS: That is correct. BY MR. TISI: Q. Would you go to page Table III, please? A. Uh-huh. Q. It says when you censured patients.	3 ratio being in those that had greater than 10,000 4 applications when limiting this exposure 5 assessment. 6 Q. Okay. Did you see a dose response 7 when you compared 3,000, 3,000 to 10,000, an 8 greater than 10,000? 9 A. The risks 10 MR. HEGARTY: Objection to the 11 form. 12 THE WITNESS: The risks went 13 from 1.54 to 1.72 to 1.8. 14 BY MR. TISI: 15 Q. Were they all statistically 16 significant? 17 A. The confidence intervals did not 18 included 1. 19 Q. Okay. 20 A. Not yes, included 1 in all of 21 them.

	Page 458		Page 460
1	methodology?	1	MR. HEGARTY: Objection to
2	A. Yes.	2	form.
3	Q. Okay. Here in your article, you	3	BY MR. TISI:
4	describe the causal methodology that you, in fac-	, 4	Q. That's what you explained in your
5	used in this case, correct?	5	in your expert report?
6	MR. HEGARTY: Objection to the	6	A. In the methodology section of that
7	form.	7	report, yes.
8	THE WITNESS: In this 1999	8	Q. And it's what was published in the
9	paper, I followed the approach that I've	9	peer-reviewed peer-reviewed literature; is tha
10	* *		correct?
11	interpret the findings in the context of	11	MR. HEGARTY: Objection to
12	· · · · · · · · · · · · · · · · · · ·	12	form.
13	•	13	THE WITNESS: Published in
14	Q. Let's look at page 353 of your	14	this paper in 1999.
	article, please, under the "Discussion" section.	15	BY MR. TISI:
16	_	16	Q. By the way, counsel spent a lot of
17		17	time asking about the National Cancer Institute
18	•		and how important an agency that is.
	whether this association satisfies traditional	19	Could you tell us who funded your
	criteria for a causal association including		research in 1999?
	consistency and strength of the association,	21	A. The National Cancer Institute.
	potential biases, dose response and biologic	22	Q. Thank you very much.
	credibility."	23	Oh, and by the way, at the very end
24	-		of the article, they talk about you provide a
	,		
1	Page 459 A. Yes, I do.	1	Page 461 summary?
2	Q. Are those the very same things when	2	A. Yes. "In summary, we have
3		3	demonstrated."
	paper that you applied when you you and	4	Q. Okay. It says, and I'll read it
	Dr. Rothman got together and re-reviewed the	5	into the record:
	evidence in 2023?	6	"In summary, we have demonstrated a
7	MR. HEGARTY: Objection to		consistent association between talc and ovarian
8	form.		cancer that appears unlikely to be explained by
9	THE WITNESS: That's correct.		recall and confounding."
	BY MR. TISI:	10	Do you see that?
11	Q. Okay. So you looked at primarily	11	A. Yes.
	you didn't list each and every one of the	12	Q. Okay. So you talked about
	Bradford-Hill factors, right?	13	consistency, correct?
14		14	MR. HEGARTY: Objection to the
		15	form.
	consistency, biologic plausibility, and dose	16	THE WITNESS: Yes.
	response and whether or not there was evidence of		BY MR. TISI:
	a bias, correct? A. That's correct.	18	
18		19	Q. Okay. A. Yes.
19	•		
20		20	Q. You talked about whether or not it's
	BY MR. TISI:	21	explained by these other biases that counsel was
22	•	22	asking about all day today, correct?
2324	association?	23	MR. HEGARTY: Objection to the
	A. That's correct.	24	form.

Page 462 1 THE WITNESS: Yes.	Page 464 1 anybody about your opinions about the biologic
2 BY MR. TISI:	2 plausibility of talc, about the potential for talc
	3 reaching the ovaries, about the potential for
3 Q. Okay. You talked about, it says:	4 asbestos contamination, that women ought to be
4 "The dose-response relationship is	5 told about about the risk or told to avoid the
5 weak but improved by considering factors such as	6 risk, you wrote that all in the 1990s.
6 closure of the female tract, ovulation and	7 Correct?
7 exposure prior to pregnancy, and we have outlined	8 A. Yes.
8 a plausible biologic rationale for this 9 association."	
	9 MR. HEGARTY: Objection to the 10 form.
Do you see that?	11 BY MR. TISI:
11 A. Yes, I do.	
12 Q. That's exactly the same kinds of	
13 things you talked about in your litigation report,	13 contacted by any lawyers in this litigation, true? 14 MR. HEGARTY: Object.
14 correct?	15 BY MR. TISI:
MR. HEGARTY: Objection to the	
16 form.	16 Q. By decades? 17 A. Correct.
17 THE WITNESS: Yes. 18 BY MR. TISI:	17 A. Correct. 18 Q. True?
19 Q. Okay. It says:	,
20 "We estimate that avoidance of talc	
21 in genital hygiene might reduce the occurrence of	21 THE WITNESS: Yes. 22 BY MR. TISI:
22 a highly lethal form of cancer by at least 10%."	
23 Correct?	
24 A. Yes.	24 Counsel asked you some questions
Page 463	Page 465
1 MR. HEGARTY: Objection to the	1 about your letter to the editor.
2 form.	2 Okay. Now, this would have been
3 BY MR. TISI:	3 after you had done some consulting with for
4 Q. Okay. And that's something that was	4 not made as an expert but was a consultant for
5 published in the peer-reviewed literature,	5 talc litigants, correct? MR. HECARTY: Objection to the
6 correct?	6 MR. HEGARTY: Objection to the
7 MR. HEGARTY: Objection to the	7 form.
8 form.	8 THE WITNESS: That is
9 THE WITNESS: Yes.	9 correct.
10 BY MR. TISI:	10 BY MR. TISI:
11 Q. Okay. It says:	11 Q. Okay. You told people you told
12 "Balanced against what are primarily	12 the world that you had been a consultant in
13 aesthetic reasons for using talc as genital	13 litigation, correct?
14 hygiene, the risk benefit decision is not complex.	MR. HEGARTY: Objection to the
15 Appropriate warnings should be provided to women	15 form.
16 about the potential risks of regular use in the	16 THE WITNESS: I believe I
17 genital area."	17 said I well, I believe I
Do you see that?	18 MR. HEGARTY: Misstates what
MR. HEGARTY: Objection to the	19 he says.
20 form.	20 THE WITNESS: I specifically
21 THE WITNESS: Yes.	said that Dr. Harlow reported publishing
22 BY MR. TISI:	research and serving as consultant on the
22 0 01 0 1 1 1 1	22 tonic of tale and avanian assessments
23 Q. Okay. So when counsel asked you 24 whether or not you had ever made ever told	topic of talc and ovarian cancer risk. 24 BY MR. TISI:

1 O Olray Naw	Page 466	ia that th	Page 468
			nere was no biologic plausibility or he
2 talked about Dr. Rothm	_		cerns about biologic plausibility.
1	if Dr. Rothman actually		Do you remember that testimony?
4 did a report for the talc	•		Yes.
	RTY: Objection to		MR. HEGARTY: Objection to the
6 form.	TEGG. At the disc.		
		BYMR	
8 that I wrote this let			All right. Is there any evidence
9 BY MR. TISI:			t the that Dr. Rothman was told that
10 Q. Yes.	I		ere tests performed by Johnson & Johnson in
11 A. I did not know			os and 1980s which showed asbestos in talc?
1	osequently learned that? 12		MR. HEGARTY: Objection to
13 A. Yes.			
	eport that counsel asked 14		THE WITNESS: I didn't see
I .	the request of the Cosmetic 15	-	of that.
16 Toiletry Products I fo	-		MR. HEGARTY: Lacks
	Johnson & Johnson, true?		ndation. Misstates the facts.
	3	BYMR	
	lation. Also misstates 19	-	Could you go to
20 the facts. Calls for	-		I didn't see it in the report.
21 BY MR. TISI:	21		Could you go to Section B of your
		_	eport, please? I mean, Footnote B of your
23 that was performed at t	_	expert r	•
24 industry?	24	1 A.	Okay. Okay. Footnote A. Footnote
1 A. Yes.	Page 467	B. Yes	Page 469
1 A. 168.			
2 O Okov			
2 Q. Okay.		2 Q.	Okay. In Footnote B
3 A. That is th	hat is my understanding	Q. Q. A.	Okay. In Footnote B This is the William Longo?
3 A. That is the 4 of that report.	nat is my understanding	Q. Q. A. 4 Q.	Okay. In Footnote B This is the William Longo? Right.
3 A. That is the second of that report. 5 Q. Now, you have	nat is my understanding have been asked about that,	Q. Q. A. Q. A. A.	Okay. In Footnote B This is the William Longo? Right. Okay.
3 A. That is the second of that report. 5 Q. Now, you he and I can certainly shape.	hat is my understanding have been asked about that, how you what Dr. Rothman	Q. Q. A. Q. 5 A. Q. Q.	Okay. In Footnote B This is the William Longo? Right. Okay. But there's also a reference to a
 3 A. That is tl 4 of that report. 5 Q. Now, you l 6 and I can certainly sh 7 said, but counsel selection 	nat is my understanding have been asked about that, how you what Dr. Rothman ectively asked you questions	Q. Q. A. 4 Q. 5 A. 6 Q. 7 Hopkins	Okay. In Footnote B This is the William Longo? Right. Okay. But there's also a reference to a sexhibit.
3 A. That is the second of that report. 5 Q. Now, you he said, but counsel seles about Dr. Rothman's	hat is my understanding have been asked about that, how you what Dr. Rothman ectively asked you questions report, but I'm going to ask	Q. Q. A. 4. Q. 5. A. 6. Q. 7. Hopkin: 3	Okay. In Footnote B This is the William Longo? Right. Okay. But there's also a reference to a s exhibit. Do you see that?
3 A. That is the second of that report. 5 Q. Now, you he said, but counsel select about Dr. Rothman's 9 you about it.	hat is my understanding have been asked about that, how you what Dr. Rothman ectively asked you questions report, but I'm going to ask	Q. Q. A. 4 Q. 5 A. 6 Q. 7 Hopkins 3 A.	Okay. In Footnote B This is the William Longo? Right. Okay. But there's also a reference to a sexhibit. Do you see that? Yes.
3 A. That is the second of that report. 5 Q. Now, you he said, but counsel select a shout Dr. Rothman's 9 you about it. 10 A. Okay.	nat is my understanding have been asked about that, how you what Dr. Rothman ectively asked you questions report, but I'm going to ask	Q. Q. A. A. Q. 5 A. Q. 7 Hopkins B. A. Q. Q. Q. Q.	Okay. In Footnote B This is the William Longo? Right. Okay. But there's also a reference to a sexhibit. Do you see that? Yes. Okay. And do you recall counsel
3 A. That is the second of that report. 5 Q. Now, you he for and I can certainly she report. 7 said, but counsel selete 8 about Dr. Rothman's 9 you about it. 10 A. Okay. 11 Q. First of all,	nat is my understanding have been asked about that, how you what Dr. Rothman ectively asked you questions report, but I'm going to ask here is Exhibit Number	Q. Q. A. Q. A. Q. A. G. Q. Hopkin: B. Q. Q. Q. A. Q. Q. A. asked years.	Okay. In Footnote B This is the William Longo? Right. Okay. But there's also a reference to a sexhibit. Do you see that? Yes. Okay. And do you recall counsel ou questions about about references to
3 A. That is the second of that report. 5 Q. Now, you he said, but counsel select about Dr. Rothman's you about it. 10 A. Okay. 11 Q. First of all, 12 P7, I believe.	hat is my understanding have been asked about that, how you what Dr. Rothman ectively asked you questions report, but I'm going to ask here is Exhibit Number	Q. Q. A. Q. A. G. Q. Hopkins A. Q. Q. 1 asked years asbestos	Okay. In Footnote B This is the William Longo? Right. Okay. But there's also a reference to a sexhibit. Do you see that? Yes. Okay. And do you recall counsel ou questions about about references to se in talc, and you mentioned Dr. Longo, and
3 A. That is the second of that report. 5 Q. Now, you he said, but counsel select a about Dr. Rothman's you about it. 10 A. Okay. 11 Q. First of all, 12 P7, I believe. 13 A. This goes to	nat is my understanding have been asked about that, how you what Dr. Rothman ectively asked you questions report, but I'm going to ask here is Exhibit Number 12 13 14 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Q. Q. A. Q. A. Q. F. A. Q. G. P. Hopkins A. Q. Q. 1 asked y. 2 asbestos 3 he asked	Okay. In Footnote B This is the William Longo? Right. Okay. But there's also a reference to a sexhibit. Do you see that? Yes. Okay. And do you recall counsel ou questions about about references to se in talc, and you mentioned Dr. Longo, and do you all the questions about him being an
3 A. That is the second of	nat is my understanding have been asked about that, how you what Dr. Rothman ectively asked you questions report, but I'm going to ask here is Exhibit Number 12 15 16 17 18 18 19 19 10 10 11 11 11 12 13 14	Q. Q. A. A. Q. A. Q. Thopkins A. Q. Q. I asked you asbestor the asked the expert of the second secon	Okay. In Footnote B This is the William Longo? Right. Okay. But there's also a reference to a sexhibit. Do you see that? Yes. Okay. And do you recall counsel ou questions about about references to so in talc, and you mentioned Dr. Longo, and do you all the questions about him being an or plaintiffs and all that? All that?
3 A. That is the second of	nat is my understanding have been asked about that, how you what Dr. Rothman ectively asked you questions report, but I'm going to ask here is Exhibit Number o you. I Is it P7? GARTY: That's what I	Q. Q. A. Q. A. Q. Hopkins A. Q. asked y. Q. asked y. Q. asked y. Q. asked y. A.	Okay. In Footnote B This is the William Longo? Right. Okay. But there's also a reference to a sexhibit. Do you see that? Yes. Okay. And do you recall counsel ou questions about about references to so in talc, and you mentioned Dr. Longo, and do you all the questions about him being an or plaintiffs and all that? All that? (Nods head).
3 A. That is the second of	nat is my understanding have been asked about that, how you what Dr. Rothman ectively asked you questions report, but I'm going to ask here is Exhibit Number 12 o you. 13 15 16 17 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	2 Q. 3 A. 4 Q. 5 A. 6 Q. 7 Hopkins 8 A. 9 A. 9 Q. 1 asked y. 2 asbestos 3 he asked 4 expert f 5 A. 6 Q.	Okay. In Footnote B This is the William Longo? Right. Okay. But there's also a reference to a sexhibit. Do you see that? Yes. Okay. And do you recall counsel ou questions about about references to s in talc, and you mentioned Dr. Longo, and d you all the questions about him being an or plaintiffs and all that? All that? (Nods head). Okay. You remember the Hopkins
3 A. That is the second of	nat is my understanding have been asked about that, how you what Dr. Rothman bectively asked you questions report, but I'm going to ask here is Exhibit Number 12 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Q. Q. A. A. Q. A. Q. Thopkins A. Q. A. Q. I asked y. Q. asbestos A. A. Expert f. A. Q. Thopkins A. Thopkins A. Q. Thopkins A. Thopkins A. Q. Thopkins A. A. Q. Thopkins A.	Okay. In Footnote B This is the William Longo? Right. Okay. But there's also a reference to a sexhibit. Do you see that? Yes. Okay. And do you recall counsel ou questions about about references to sein talc, and you mentioned Dr. Longo, and dryou all the questions about him being an or plaintiffs and all that? All that? (Nods head). Okay. You remember the Hopkins was produced by J&J's witness, correct?
3 A. That is the second of	nat is my understanding have been asked about that, how you what Dr. Rothman extively asked you questions report, but I'm going to ask here is Exhibit Number is Is it P7? GARTY: That's what I is P7. int marked for	Q. Q. A. Q. A. Q. Hopkins A. Q. asked y. Q	Okay. In Footnote B This is the William Longo? Right. Okay. But there's also a reference to a sexhibit. Do you see that? Yes. Okay. And do you recall counsel ou questions about about references to sin talc, and you mentioned Dr. Longo, and d you all the questions about him being an or plaintiffs and all that? All that? (Nods head). Okay. You remember the Hopkins was produced by J&J's witness, correct? MR. HEGARTY: Objection to the
3 A. That is the second of	nat is my understanding have been asked about that, how you what Dr. Rothman bectively asked you questions report, but I'm going to ask here is Exhibit Number 12 15 16 17 18 18 19 19 19 19 19 10 10 11 11 11 11 11 11 11 11 11 11 11	Q. Q. A. Q. A. Q. Hopkins A. Q. A. Q. asked y. Q. aske	Okay. In Footnote B This is the William Longo? Right. Okay. But there's also a reference to a sexhibit. Do you see that? Yes. Okay. And do you recall counsel ou questions about about references to s in talc, and you mentioned Dr. Longo, and d you all the questions about him being an or plaintiffs and all that? All that? (Nods head). Okay. You remember the Hopkins was produced by J&J's witness, correct? MR. HEGARTY: Objection to the m. Lacks foundation. Calls for
3 A. That is the second of	nat is my understanding have been asked about that, how you what Dr. Rothman bectively asked you questions report, but I'm going to ask here is Exhibit Number 12 13 14 15 16 17 18 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Q. Q. A. Q. A. Q. Thopkins A. Q. A. Q. asked y. Q. asked y. Q. asked y. Q. asked y. Q. Thopkins A. Q. Thopkins	Okay. In Footnote B This is the William Longo? Right. Okay. But there's also a reference to a sexhibit. Do you see that? Yes. Okay. And do you recall counsel ou questions about about references to sin talc, and you mentioned Dr. Longo, and d you all the questions about him being an or plaintiffs and all that? All that? (Nods head). Okay. You remember the Hopkins was produced by J&J's witness, correct? MR. HEGARTY: Objection to the m. Lacks foundation. Calls for culation.
3 A. That is the second of	nat is my understanding have been asked about that, how you what Dr. Rothman extively asked you questions report, but I'm going to ask here is Exhibit Number o you. Is it P7? GARTY: That's what I FP7. Int marked for Exhibit P7.) 20 20 20	Q. Q. A. A. Q. A. Q. Thopkins A. Q. asked y. Q. asked y. Q. asked y. Q. asked y. Q. Thopkins A.	Okay. In Footnote B This is the William Longo? Right. Okay. But there's also a reference to a sexhibit. Do you see that? Yes. Okay. And do you recall counsel ou questions about about references to sin talc, and you mentioned Dr. Longo, and d you all the questions about him being an or plaintiffs and all that? All that? (Nods head). Okay. You remember the Hopkins was produced by J&J's witness, correct? MR. HEGARTY: Objection to the m. Lacks foundation. Calls for culation. THE WITNESS: I don't know
3 A. That is the second of	nat is my understanding have been asked about that, how you what Dr. Rothman bectively asked you questions report, but I'm going to ask here is Exhibit Number 12 13 14 15 16 17 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	2 Q. 3 A. 4 Q. 5 A. 6 Q. 7 Hopkins 8 A. 9 A. 10 Q. 1 asked y. 2 asbestos 3 he asked 4 expert f 5 A. 6 Q. 7 exhibit 8 for spe	Okay. In Footnote B This is the William Longo? Right. Okay. But there's also a reference to a sexhibit. Do you see that? Yes. Okay. And do you recall counsel ou questions about about references to s in talc, and you mentioned Dr. Longo, and d you all the questions about him being an or plaintiffs and all that? All that? (Nods head). Okay. You remember the Hopkins was produced by J&J's witness, correct? MR. HEGARTY: Objection to the m. Lacks foundation. Calls for culation. THE WITNESS: I don't know of the contract of the contract of the culation.
3 A. That is the second of	nat is my understanding have been asked about that, how you what Dr. Rothman bectively asked you questions report, but I'm going to ask here is Exhibit Number 12 15 16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	2 Q. 3 A. 4 Q. 5 A. 6 Q. 7 Hopkins 8 A. 9 A. 10 Q. 1 asked y. 2 asbestos 3 he asked 4 expert f 5 A. 6 Q. 7 exhibit 8 for spe	Okay. In Footnote B This is the William Longo? Right. Okay. But there's also a reference to a sexhibit. Do you see that? Yes. Okay. And do you recall counsel ou questions about about references to sin talc, and you mentioned Dr. Longo, and d you all the questions about him being an or plaintiffs and all that? All that? (Nods head). Okay. You remember the Hopkins was produced by J&J's witness, correct? MR. HEGARTY: Objection to the m. Lacks foundation. Calls for culation. THE WITNESS: I don't know on. I don't know one

Page 470		Page 472
Q. Okay.	1	dose response?
A who put that forward.	2	A. I do.
Q. Okay. I'm going to represent to you	3	Q. Okay. And that would have been
that there is evidence in this case that that	4	based on your study?
William Hopkins was one of the people at the at	5	MR. HEGARTY: Objection to the
the ISRTP meeting in 1995 and was a J&J employee	6	form.
testified to test results that showed asbestos in	7	THE WITNESS: Yes.
talc. I'll represent to you that.	8	BY MR. TISI:
Did you see any reference to that in	9	Q. Okay. Now, Dr. Rothman's report was
Dr. Rothman's report when he was asked to do	10	written in 2000, correct?
something, file this report by the talc industry?	11	A. That's correct.
A. I didn't.	12	Q. Okay. When he wrote his report with
MR. HEGARTY: Objection to the	13	you in 2023, in the 23 years that had passed
form.	l .	between his report and the time that you that
THE WITNESS: I did not.	15	you issued your report, you and he both noted that
MR. HEGARTY: Counsel, did you	l .	over time there was evidence of a dose response
•		when considered against the backdrop of exposure,
Number 28?	l .	true?
MR. TISI: Oh, yeah, he did.	19	MR. HEGARTY: Objection to the
I sure did.	20	form.
	21	THE WITNESS: We reported
with that.	22	that.
	23	BY MR. TISI:
		Q. Right.
Page 471		Page 473
-	1	And that's not unusual in science
	l	where evidence accumulates over time and becomes
		more or less persuasive, ,correct?
		MR. HEGARTY: Objection to the
•		form.
	6	THE WITNESS: Yes.
•	7	BY MR. TISI:
		Q. Okay. All right. Going back to the
1 1		letter to the editor that you wrote.
· ·	10	You were asked some questions about
		and even some, I would call, insulting questions
1 1	l .	about the statistically unsophisticated conclusion
		that that was reached about patent tubes.
5 6 1		Do you remember that?
		MR. HEGARTY: Objection to the
		form.
BY MR. TISI:	17	THE WITNESS: Yes.
Q. It talks about a dose response.		BY MR. TISI:
A. Are we going back to Dr. Rothman's	19	Q. Okay. First of all, you've
6 6		you've written a lot in the epidemiology
report?		,
report? O. Correct.		
Q. Correct.	21	literature.
-	21 22	
	William Hopkins was one of the people at the at the ISRTP meeting in 1995 and was a J&J employee testified to test results that showed asbestos in talc. I'll represent to you that. Did you see any reference to that in Dr. Rothman's report when he was asked to do something, file this report by the talc industry? A. I didn't. MR. HEGARTY: Objection to the form. THE WITNESS: I did not. MR. HEGARTY: Counsel, did you say that Dr. Hopkins prepared Exhibit Number 28? MR. TISI: Oh, yeah, he did. I sure did. MR. HEGARTY: I would disagree with that. MR. TISI: Okay. MR. HEGARTY: It was a Page 471 plaintiffs' lawyer prepared document. MR. TISI: With with Dr. Hopkins giving testimony at the time. MR. HEGARTY: But you're telling you were telling Dr. Harlow MR. TISI: At the deposition. MR. HEGARTY: that Dr. Hopkins prepared Exhibit 28. MR. TISI: Okay. Fine. We can disagree about the characterization. He prepared it at a deposition under oath with with with the attorney asking him questions about the test results. But let's go let's go through this.	William Hopkins was one of the people at the at the ISRTP meeting in 1995 and was a J&J employee testified to test results that showed asbestos in talc. I'll represent to you that. Did you see any reference to that in Dr. Rothman's report when he was asked to do something, file this report by the talc industry? A. I didn't. MR. HEGARTY: Objection to the form. THE WITNESS: I did not. MR. HEGARTY: Counsel, did you say that Dr. Hopkins prepared Exhibit Number 28? MR. TISI: Oh, yeah, he did. I sure did. MR. HEGARTY: I would disagree with that. MR. TISI: Okay. MR. HEGARTY: It was a Page 471 plaintiffs' lawyer prepared document. MR. TISI: With with Dr. Hopkins giving testimony at the time. MR. TISI: At the deposition. MR. HEGARTY: that Dr. Hopkins prepared Exhibit 28. MR. TISI: Okay. Fine. We can disagree about the characterization. He prepared it at a deposition under oath with with with the attorney asking him questions about the test results. But let's go let's go through this.

	D 474		D 474
1	Page 474 MR. HEGARTY: Objection to the	1	Page 476 And although we don't know
2	form.	2	whether or not the association in
	BY MR. TISI:	3	case-control study are true, in many
4	Q. Have you ever seen their name come	4	times case-control studies can
	up in any of the talc literature that you	5	overestimate the association, but it
	reviewed?	6	certainly seems like they are, as we
7		7	indicated, quite comparable.
8	Q. Okay. I'm going to refer you to	8	And I believe that's what
	what Dr putting aside what you and Dr. Rothman	9	she's suggesting here.
1	wrote, I want to ask you about what Dr how		BY MR. TISI:
1	Dr. O'Brien characterized her own study. Okay?	11	Q. Okay. And particularly with women
12	Look at Exhibit Number did we	12	with patent tubes, correct?
13	mark this?	13	MR. HEGARTY: Objection to the
14	A. Are we talking about the letter to	14	form.
15	the editor?	15	THE WITNESS: Well, in the
16	MR. HEGARTY: We did mark it.	16	next in the next paragraph,
17	BY MR. TISI:	17	Dr. O'Brien specifically says:
18	Q. Actually, I'll just you have it	18	"We completely agree with
19	in front of you, don't you?	19	Dr. Harlow and colleagues that our
20	A. I do.	20	results, particularly the analyses
21	MR. TISI: I'll give you my	21	limited to women with intact reproductive
22	copy.	22	tracts, should not be discounted because
23	MR. HEGARTY: Okay.	23	of lack of statistical significance."
24	MR. TISI: I'll give you my	24	BY MR. TISI:
	Page 475		Page 477
1	1 2	1	Q. Okay. Let me show you something
2	1		else that Dr. O'Brien said subsequent to the
3		3	1
4		4	I'm going to show you an article I'm
5	3		going to have marked as Exhibit Number what
6	3	6	exhibit number are we at now?
7	"If cohort studies pooled HR 1.8 are	7	MR. HEGARTY: P8.
1	likely biased towards the null in case-control	8	MR. TISI: P8.
1	studies are likely biased away from the null the	9	MR. HEGARTY: That's what I
	true association may be somewhere in the middle.	10	have.
11	Do you see that?	11	(Document marked for
12		12	identification as Exhibit P8.)
13	, ,		BY MR. TISI:
	what Dr. O'Brien says about the relevancy of her	14	Q. This is an article from 2023,
l	study in either proving or disproving an		December. So this would have been after your
16			expert report, correct?
17	3	17	A. Yes, because I did not see this at
18		18 19	the time I was doing the review.
1 1 ()	, c		Q. You saw that in connection with your
19		<u></u> 20	preparation for this deposition today, correct?
20	•	21	A That's correct
20 21	the because of the limitations on the	21	A. That's correct.
20 21 22	the because of the limitations on the exposure assessment in the cohort	22	Q. And one of the things she says
20 21	the because of the limitations on the exposure assessment in the cohort studies, we believe those estimates are	22 23	

	Page 478		Page 480
1	or adulthood with uterine fibroids diagnoses."	1	BY MR. TISI:
2	Do you see that?	2	Q. I meant to say EPA. Environmental
3	A. Yes.		Protection Agency.
4	Q. Okay. And she talks about she	4	A. I'm sorry. I thought I heard EPA.
5	says on the right-hand side:	5	Q. Now, when you were asked questions,
6	"Talc is a poorly soluble particle,	_	do you know of any governmental agency that ever
-	and animal models have shown that once deposited		concluded that talc-containing asbestos can cause
1	onto epithelial cells, it can cause chronic		ovarian cancer?
1	inflammation, leading to a series of mutagenic	9	Do you remember those questions?
1	events, and this effect is worse in talc	10	A. Yes.
	contaminated with asbestos, a known carcinogen."	11	MR. HEGARTY: Objection to the
12	Correct?	12	form.
13	MR. HEGARTY: Objection to		BY MR. TISI:
14	form.	14	Q. Okay. And are you aware that the
15	THE WITNESS: That is		United States Environmental Protection Agency
16	correct. And what's interesting is she's	l .	included just that very same thing?
17	citing an article from 2015 and an	17	MR. HEGARTY: I'm going to
18	article from 2019.	18	object to the form. They did not say
	BY MR. TISI:	19	that talc use causes ovarian cancer.
20	Q. Okay.	-	BY MR. TISI:
21	A. So this isn't new information.	21	Q. Talc-containing asbestos causes
22	Q. All right. My point is: When you		ovarian cancer?
	talk about to the extent that counsel is	23	MR. HEGARTY: Well, I didn't
	vouching for Dr. O'Brien's conclusions, one of the	24	are you representing that's that what
	Page 479		Page 481
1	_		· · · · · · · · · · · · · · · · · · ·
		I	that document says?
	things she talks about is the exact same biologic	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	that document says? MR_TIST: I'm going to
2	plausible mechanism you and Dr. Rothman talked	2	MR. TISI: I'm going to
3	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct?	2 3	MR. TISI: I'm going to show I'm going to show him what it
2 3 4	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to	2 3 4	MR. TISI: I'm going to show I'm going to show him what it says.
3	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form.	2 3 4 5	MR. TISI: I'm going to show I'm going to show him what it says. MR. HEGARTY: All right.
2 3 4 5 6	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form. THE WITNESS: That's correct.	2 3 4 5 6	MR. TISI: I'm going to show I'm going to show him what it says. MR. HEGARTY: All right. THE WITNESS: I know that
2 3 4 5 6	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form. THE WITNESS: That's correct. BY MR. TISI:	2 3 4 5 6 7	MR. TISI: I'm going to show I'm going to show him what it says. MR. HEGARTY: All right. THE WITNESS: I know that there have been recent recent
2 3 4 5 6 7 8	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form. THE WITNESS: That's correct. BY MR. TISI: Q. And, in fact, it's the same kind of	2 3 4 5 6	MR. TISI: I'm going to show I'm going to show him what it says. MR. HEGARTY: All right. THE WITNESS: I know that
2 3 4 5 6 7 8 9	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form. THE WITNESS: That's correct. BY MR. TISI:	2 3 4 5 6 7 8	MR. TISI: I'm going to show I'm going to show him what it says. MR. HEGARTY: All right. THE WITNESS: I know that there have been recent recent publications or recent documents that say
2 3 4 5 6 7 8 9 10	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form. THE WITNESS: That's correct. BY MR. TISI: Q. And, in fact, it's the same kind of biologic plausibility you talked about in the	2 3 4 5 6 7 8 9 10	MR. TISI: I'm going to show I'm going to show him what it says. MR. HEGARTY: All right. THE WITNESS: I know that there have been recent recent publications or recent documents that say that asbestos causes ovarian cancer was
2 3 4 5 6 7 8 9 10	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form. THE WITNESS: That's correct. BY MR. TISI: Q. And, in fact, it's the same kind of biologic plausibility you talked about in the 1990s and published in the peer-reviewed medical literature, true?	2 3 4 5 6 7 8 9 10	MR. TISI: I'm going to show I'm going to show him what it says. MR. HEGARTY: All right. THE WITNESS: I know that there have been recent recent publications or recent documents that say that asbestos causes ovarian cancer was recent.
2 3 4 5 6 7 8 9 10 11	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form. THE WITNESS: That's correct. BY MR. TISI: Q. And, in fact, it's the same kind of biologic plausibility you talked about in the 1990s and published in the peer-reviewed medical literature, true?	2 3 4 5 6 7 8 9 10 11	MR. TISI: I'm going to show I'm going to show him what it says. MR. HEGARTY: All right. THE WITNESS: I know that there have been recent recent publications or recent documents that say that asbestos causes ovarian cancer was recent. BY MR. TISI: Q. And they also say that talc can
2 3 4 5 6 7 8 9 10 11 12	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form. THE WITNESS: That's correct. BY MR. TISI: Q. And, in fact, it's the same kind of biologic plausibility you talked about in the 1990s and published in the peer-reviewed medical literature, true? A. Yes. MR. HEGARTY: Objection to the	2 3 4 5 6 7 8 9 10 11 12	MR. TISI: I'm going to show I'm going to show him what it says. MR. HEGARTY: All right. THE WITNESS: I know that there have been recent recent publications or recent documents that say that asbestos causes ovarian cancer was recent. BY MR. TISI: Q. And they also say that talc can
2 3 4 5 6 7 8 9 10 11 12 13	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form. THE WITNESS: That's correct. BY MR. TISI: Q. And, in fact, it's the same kind of biologic plausibility you talked about in the 1990s and published in the peer-reviewed medical literature, true? A. Yes. MR. HEGARTY: Objection to the	2 3 4 5 6 7 8 9 10 11 12 13	MR. TISI: I'm going to show I'm going to show him what it says. MR. HEGARTY: All right. THE WITNESS: I know that there have been recent recent publications or recent documents that say that asbestos causes ovarian cancer was recent. BY MR. TISI: Q. And they also say that talc can contain asbestos asbestos, correct?
2 3 4 5 6 7 8 9 10 11 12 13	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form. THE WITNESS: That's correct. BY MR. TISI: Q. And, in fact, it's the same kind of biologic plausibility you talked about in the 1990s and published in the peer-reviewed medical literature, true? A. Yes. MR. HEGARTY: Objection to the form. BY MR. TISI:	2 3 4 5 6 7 8 9 10 11 12 13 14	MR. TISI: I'm going to show I'm going to show him what it says. MR. HEGARTY: All right. THE WITNESS: I know that there have been recent recent publications or recent documents that say that asbestos causes ovarian cancer was recent. BY MR. TISI: Q. And they also say that talc can contain asbestos asbestos, correct? MR. HEGARTY: Objection to the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form. THE WITNESS: That's correct. BY MR. TISI: Q. And, in fact, it's the same kind of biologic plausibility you talked about in the 1990s and published in the peer-reviewed medical literature, true? A. Yes. MR. HEGARTY: Objection to the form. BY MR. TISI:	2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. TISI: I'm going to show him what it says. MR. HEGARTY: All right. THE WITNESS: I know that there have been recent recent publications or recent documents that say that asbestos causes ovarian cancer was recent. BY MR. TISI: Q. And they also say that talc can contain asbestos asbestos, correct? MR. HEGARTY: Objection to the form.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form. THE WITNESS: That's correct. BY MR. TISI: Q. And, in fact, it's the same kind of biologic plausibility you talked about in the 1990s and published in the peer-reviewed medical literature, true? A. Yes. MR. HEGARTY: Objection to the form. BY MR. TISI: Q. All right. Now, by the way, talking	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. TISI: I'm going to show I'm going to show I'm going to show him what it says. MR. HEGARTY: All right. THE WITNESS: I know that there have been recent recent publications or recent documents that say that asbestos causes ovarian cancer was recent. BY MR. TISI: Q. And they also say that talc can contain asbestos asbestos, correct? MR. HEGARTY: Objection to the form. THE WITNESS: I if you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form. THE WITNESS: That's correct. BY MR. TISI: Q. And, in fact, it's the same kind of biologic plausibility you talked about in the 1990s and published in the peer-reviewed medical literature, true? A. Yes. MR. HEGARTY: Objection to the form. BY MR. TISI: Q. All right. Now, by the way, talking about things that are subsequent to your expert	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. TISI: I'm going to show I'm going to show I'm going to show him what it says. MR. HEGARTY: All right. THE WITNESS: I know that there have been recent recent publications or recent documents that say that asbestos causes ovarian cancer was recent. BY MR. TISI: Q. And they also say that talc can contain asbestos asbestos, correct? MR. HEGARTY: Objection to the form. THE WITNESS: I if you show it to me, I will agree.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form. THE WITNESS: That's correct. BY MR. TISI: Q. And, in fact, it's the same kind of biologic plausibility you talked about in the 1990s and published in the peer-reviewed medical literature, true? A. Yes. MR. HEGARTY: Objection to the form. BY MR. TISI: Q. All right. Now, by the way, talking about things that are subsequent to your expert report.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. TISI: I'm going to show him what it says. MR. HEGARTY: All right. THE WITNESS: I know that there have been recent recent publications or recent documents that say that asbestos causes ovarian cancer was recent. BY MR. TISI: Q. And they also say that talc can contain asbestos asbestos, correct? MR. HEGARTY: Objection to the form. THE WITNESS: I if you show it to me, I will agree. BY MR. TISI:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form. THE WITNESS: That's correct. BY MR. TISI: Q. And, in fact, it's the same kind of biologic plausibility you talked about in the 1990s and published in the peer-reviewed medical literature, true? A. Yes. MR. HEGARTY: Objection to the form. BY MR. TISI: Q. All right. Now, by the way, talking about things that are subsequent to your expert report. Do you understand that the FDA has	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. TISI: I'm going to show him what it says. MR. HEGARTY: All right. THE WITNESS: I know that there have been recent recent publications or recent documents that say that asbestos causes ovarian cancer was recent. BY MR. TISI: Q. And they also say that talc can contain asbestos asbestos, correct? MR. HEGARTY: Objection to the form. THE WITNESS: I if you show it to me, I will agree. BY MR. TISI: Q. In fact, in Section B I will show
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form. THE WITNESS: That's correct. BY MR. TISI: Q. And, in fact, it's the same kind of biologic plausibility you talked about in the 1990s and published in the peer-reviewed medical literature, true? A. Yes. MR. HEGARTY: Objection to the form. BY MR. TISI: Q. All right. Now, by the way, talking about things that are subsequent to your expert report. Do you understand that the FDA has come out with a with a final rule with respect	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. TISI: I'm going to show him what it says. MR. HEGARTY: All right. THE WITNESS: I know that there have been recent recent publications or recent documents that say that asbestos causes ovarian cancer was recent. BY MR. TISI: Q. And they also say that talc can contain asbestos asbestos, correct? MR. HEGARTY: Objection to the form. THE WITNESS: I if you show it to me, I will agree. BY MR. TISI: Q. In fact, in Section B I will show you this in a minute.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form. THE WITNESS: That's correct. BY MR. TISI: Q. And, in fact, it's the same kind of biologic plausibility you talked about in the 1990s and published in the peer-reviewed medical literature, true? A. Yes. MR. HEGARTY: Objection to the form. BY MR. TISI: Q. All right. Now, by the way, talking about things that are subsequent to your expert report. Do you understand that the FDA has come out with a with a final rule with respect to with respect to asbestos and, among other things, ovarian cancer?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. TISI: I'm going to show him what it says. MR. HEGARTY: All right. THE WITNESS: I know that there have been recent recent publications or recent documents that say that asbestos causes ovarian cancer was recent. BY MR. TISI: Q. And they also say that talc can contain asbestos asbestos, correct? MR. HEGARTY: Objection to the form. THE WITNESS: I if you show it to me, I will agree. BY MR. TISI: Q. In fact, in Section B I will show you this in a minute. A. Yeah.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	plausible mechanism you and Dr. Rothman talked about in your 2023 expert report, correct? MR. HEGARTY: Objection to form. THE WITNESS: That's correct. BY MR. TISI: Q. And, in fact, it's the same kind of biologic plausibility you talked about in the 1990s and published in the peer-reviewed medical literature, true? A. Yes. MR. HEGARTY: Objection to the form. BY MR. TISI: Q. All right. Now, by the way, talking about things that are subsequent to your expert report. Do you understand that the FDA has come out with a with a final rule with respect to with respect to asbestos and, among other things, ovarian cancer? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. TISI: I'm going to show him what it says. MR. HEGARTY: All right. THE WITNESS: I know that there have been recent recent publications or recent documents that say that asbestos causes ovarian cancer was recent. BY MR. TISI: Q. And they also say that talc can contain asbestos asbestos, correct? MR. HEGARTY: Objection to the form. THE WITNESS: I if you show it to me, I will agree. BY MR. TISI: Q. In fact, in Section B I will show you this in a minute. A. Yeah. Q. In Footnote B of your expert report,

_		Page 482	,		Page 48 ²
1	A.	That's correct.	1	Q.	Going to the next page. Page
2	Q.	And what did they find?		_	inated at the top. I think it's the
3	A.	They found contamination.	3		fourth page in. 21973.
4	71.	MR. HEGARTY: Objection to the	4	A.	Yes.
5	forn	· ·	5		
_	BY MR			Q.	Middle paragraph, middle column.
			6	Α.	Yes.
7	Q.	Okay.	7	Q.	Paragraph it says at the bottom
8	A.	They found contamination.	8	it says:	
9		MR. TISI: Let me mark as	9		"Additionally, some"
10	Exh	iibit Number 9.	10	A.	Hold on. Let me find where it is.
11		THE COURT REPORTER: 9.	11		MR. HEGARTY: I'm not
12		MR. TISI: Thank you for	12	fol	lowing where you are either.
13	kee	ping track for me. I'm trying to move	13		THE WITNESS: Okay.
14	quio	ckly.	14		MR. TISI: (Indicates).
15	-	THE WITNESS: This is 7. Oh,	15		MR. HEGARTY: What's the
16	no.	Wait a minute.	16	hea	ading on the section?
17		MR. TISI: That's 8. This	17		MR. TISI: "Background."
18	is 9		18		MR. HEGARTY: Okay. And
19	10 /	THE WITNESS: Okay.	19	VOI	u're talking about?
20		(Document marked for	20	•	MR. TISI: The middle,
21	idor	ntification as Exhibit P9.)	21		ee-fourths down.
22	idei	MR. TISI: For the record,	$\begin{vmatrix} 21\\22\end{vmatrix}$		
	41.1.	•			MR. HEGARTY: Okay. Where th
23		is Federal Register dated March 28,	23		rd starts "Additionally"?
24	202	4. 	24		MR. TISI: "Additionally."
		Page 483			Page 48.
1		MR. HEGARTY: Do you have a	1		THE WITNESS: Hold on. I'm
2	copy	for me?	2		king for that. Can I see that again?
3		Can I have that clip that's in	3	BY MR	
4	front	of you? It's right there.	4	Q.	Sure.
5		MR. TISI: Yes.	5	A.	I want to make sure that I'm
6		MR. HEGARTY: Thank you.	6	followin	ng this.
7	BY MR.	TISI:	7		I got it. Okay. Uh-huh.
8	Q.	First of all, do you see on the	8	Q.	It says:
9	left-hand	side it says	9		"Additionally, some talc deposits
10	A.	Under "Summary"?	10	and artic	cles containing talc have been shown to
11	Q.	Under "Summary," it says is issuing			asbestos. Thus, EPA recognizes that
	for	<i>J</i> , <i>J</i>			uses of talc may present the potential for
13		"The Environmental Protection Agency	13		exposure."
		the Agency) is issuing this final rule	14	assestos	Do you see that?
		Toxic Substances Control Act to address	15	A.	I do.
			16	Q.	
	to the ext	tent necessary the unreasonable risk of		-	Okay. And in fact, you were aware
16	ini	health presented by chrysotile asbestos			FDA did test Johnson & Johnson's talc and
16 17		Alice interference and the contraction of the Contr		aid find	talc in it, true?
16 17 18	based on	the risks posed by certain conditions of			*7
16 17 18 19	based on use. The	injuries to human health include."	19	A.	Yes.
16 17 18 19 20	based on use. The	injuries to human health include." Could you tell us what they say?	19 20	A.	MR. HEGARTY: Objection to the
16 17 18 19 20 21	based on use. The A.	injuries to human health include." Could you tell us what they say? "The injuries to human health	19 20 21	A.	MR. HEGARTY: Objection to the n.
16 17 18 19 20 21	based on use. The A.	injuries to human health include." Could you tell us what they say?	19 20 21	A.	MR. HEGARTY: Objection to the n.
16 17 18 19 20 21 22	based on use. The A. include n	injuries to human health include." Could you tell us what they say? "The injuries to human health	19 20 21	A.	MR. HEGARTY: Objection to the n.

	Page 486		Page 488
1	It says	1	you were asked some questions about inhalation
2	MR. HEGARTY: Where are you		that this that this supports your opinion that
3	reading?		that is an alternative plausible biologic
4	BY MR. TISI:		mechanism for for the possibility of talc
5	Q. On page 21975 under the title	5	causing ovarian cancer?
6	"Description of Unreasonable Risk."	6	MR. HEGARTY: Objection to
7	A. Uh-huh.	7	form.
8	Q. Do you see that?	8	THE WITNESS: From
9	A. Yes.	9	
10		-	inhalation, yes. BY MR. TISI:
-			
1	dose response. Three-quarters of the way down, it	11	Q. Okay. And so whether or not
1	says:		asbestos is the cause of talc of talc causing
13	"Since there was no		ovarian cancer, it is a plausible is it a
	exposure-response data for ovarian and laryngeal		plausible mechanism?
	cancer effects in the epidemiological literature,	15	A. Yes.
	a direct estimate of risk from ovarian and	16	MR. HEGARTY: Objection to the
	laryngeal cancer could not be made for the	17	form.
	inhalation unit risk calculation."		
19	A. Uh-huh.	19	Q. Okay. Is there evidence in the
20	Q. It says:	20	scientific and medical literature, including by
21	"An adjustment factor for ovarian	21	this government agency, that would say that?
	and laryngeal cancer effects was applied to risk	22	A. Yes.
23	value estimates to correct for the underestimated	23	MR. HEGARTY: Objection to the
24	total cancer risk derived from only lung cancer	24	form.
	Page 487		Page 489
1	and mesothelioma," it says.	1	BY MR. TISI:
2	And then it goes on to say:	2	Q. In fact, that was also reported
3	"Total cancer risk encompassing all	3	was that also reported by IARC in 2012?
4	four cancers known to be caused by exposure to	4	A. Yes.
5	chrysotile asbestos."	5	MR. HEGARTY: Objection to the
6	Do you see that?	6	form.
7	A. I do.	7	BY MR. TISI:
8	Q. And if you go above, it says	8	Q. So when counsel says, does any
9	right under the description, it says:	9	federal does any governmental body ever say
10	"Unreasonable risk includes the risk	10	that talc can cause ovarian cancer, we have two
11	of mesothelioma and lung, ovarian, and laryngea	111	agencies, including IARC and and the
12	cancers from chronic inhalation exposure."	12	Environmental Protection Agency, saying talc with
13	A. Yes.	13	asbestos can cause ovarian cancer.
14	Q. Okay. Let me ask you a couple	14	Is that true or not true?
	questions about that.	15	MR. HEGARTY: Misstates the
16	First of all, does this support your	16	document.
17		17	THE WITNESS: It is what they
18	biologically plausible mechanism for causing	18	say.
19	ovarian cancer?		BY MR. TISI:
20	A. Yes.	20	Q. Okay. And, in fact, if you go one
21	MR. HEGARTY: Objection to the		step further, Health Canada says they're not even
41	form.		looking at asbestos.
22			_
22	BY MR TISI:	23	They saw that tale as a whole
1	BY MR. TISI: Q. Does it support your opinion and	23	They saw that talc as a whole, whatever is in the bottle, is a likely cause of

P 400	Page 492
Page 490 1 ovarian cancer, correct?	MR. HEGARTY: And I need to do
2 MR. HEGARTY: Objection to the	2 so before the flight leaves.
3 form.	3 MR. TISI: I'm just going to
4 THE WITNESS: Yes.	4 ask very short. I'm going to just and
5 BY MR. TISI:	5 I need a break. Just one area that I
	6 know I have to I know I have to talk
6 Q. Now, did they unlike the FDA in	
7 the 2014 letter that you were shown before by the 8 FDA	· · · · · · · · · · · · · · · · · · ·
	,
9 A. Uh-huh.	
10 Q did Health Canada actually show	MR. HEGARTY: Okay.
11 its work?	MS. PARFITT: 7:02. What time
MR. HEGARTY: Objection to the	is your flight?
13 form.	MR. HEGARTY: 8:15. So I'm
14 THE WITNESS: Yes.	going to call. I have to change before
15 BY MR. TISI:	it takes off.
16 Q. Did it list all the studies it	MS. PARFITT: You won't make
17 considered?	it, Mark.
18 A. Yes, it did.	MR. HEGARTY: No, I know. I'm
19 Q. Did it go through the	not going to try to make it. I'm just
20 Bradford-Hill the Bradford considerations and	saying I have to call.
21 talked about dose response and talk about biologic	MS. PARFITT: Yeah, why don't
22 plausibility and all of those things, correct?	we take a quick break.
23 A. Yes.	MR. TISI: Oh, yeah. We can
MR. HEGARTY: Objection to the	24 do that.
Page 491	Page 493
1 form.	Page 493 1 MR. HEGARTY: I have to call
1 form. 2 BY MR. TISI:	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off.
1 form.2 BY MR. TISI:3 Q. Do you know from reading that	Page 493 MR. HEGARTY: I have to call and reschedule before it takes off. (Recess: 7:02 p.m
 form. BY MR. TISI: Q. Do you know from reading that document we can take it out, but I'm trying to 	Page 493 MR. HEGARTY: I have to call and reschedule before it takes off. (Recess: 7:02 p.m 7:34 p.m.)
 form. BY MR. TISI: Q. Do you know from reading that document we can take it out, but I'm trying to be respectful of the time here. 	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI:
 form. BY MR. TISI: Q. Do you know from reading that document we can take it out, but I'm trying to be respectful of the time here. Do you know you said it was 	Page 493 MR. HEGARTY: I have to call and reschedule before it takes off. (Recess: 7:02 p.m 7:34 p.m.)
 form. BY MR. TISI: Q. Do you know from reading that document we can take it out, but I'm trying to be respectful of the time here. Do you know you said it was peer-reviewed. 	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI: 6 Q. I'm going to try to do this in a 7 really summary way because it's late.
 form. BY MR. TISI: Q. Do you know from reading that document we can take it out, but I'm trying to be respectful of the time here. Do you know you said it was peer-reviewed. Do you know whether or not J&J 	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI: 6 Q. I'm going to try to do this in a 7 really summary way because it's late. 8 A. (Nods head).
 form. BY MR. TISI: Q. Do you know from reading that document we can take it out, but I'm trying to be respectful of the time here. Do you know you said it was peer-reviewed. Do you know whether or not J&J actually have you been informed that J&J 	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI: 6 Q. I'm going to try to do this in a 7 really summary way because it's late. 8 A. (Nods head). 9 Q. If you would go you remember the
1 form. 2 BY MR. TISI: 3 Q. Do you know from reading that 4 document we can take it out, but I'm trying to 5 be respectful of the time here. 6 Do you know you said it was 7 peer-reviewed. 8 Do you know whether or not J&J 9 actually have you been informed that J&J 10 actually met with Health Canada and actually	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI: 6 Q. I'm going to try to do this in a 7 really summary way because it's late. 8 A. (Nods head). 9 Q. If you would go you remember the 10 discussion of the PDQ?
1 form. 2 BY MR. TISI: 3 Q. Do you know from reading that 4 document we can take it out, but I'm trying to 5 be respectful of the time here. 6 Do you know you said it was 7 peer-reviewed. 8 Do you know whether or not J&J 9 actually have you been informed that J&J 10 actually met with Health Canada and actually 11 provided not only plaintiffs' expert reports in	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI: 6 Q. I'm going to try to do this in a 7 really summary way because it's late. 8 A. (Nods head). 9 Q. If you would go you remember the 10 discussion of the PDQ? 11 A. Yes.
1 form. 2 BY MR. TISI: 3 Q. Do you know from reading that 4 document we can take it out, but I'm trying to 5 be respectful of the time here. 6 Do you know you said it was 7 peer-reviewed. 8 Do you know whether or not J&J 9 actually have you been informed that J&J 10 actually met with Health Canada and actually 11 provided not only plaintiffs' expert reports in 12 litigation, but also defendants' expert reports in	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI: 6 Q. I'm going to try to do this in a 7 really summary way because it's late. 8 A. (Nods head). 9 Q. If you would go you remember the 10 discussion of the PDQ? 11 A. Yes. 12 Q. Okay. And you remember the
1 form. 2 BY MR. TISI: 3 Q. Do you know from reading that 4 document we can take it out, but I'm trying to 5 be respectful of the time here. 6 Do you know you said it was 7 peer-reviewed. 8 Do you know whether or not J&J 9 actually have you been informed that J&J 10 actually met with Health Canada and actually 11 provided not only plaintiffs' expert reports in 12 litigation, but also defendants' expert reports in 13 litigation?	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI: 6 Q. I'm going to try to do this in a 7 really summary way because it's late. 8 A. (Nods head). 9 Q. If you would go you remember the 10 discussion of the PDQ? 11 A. Yes. 12 Q. Okay. And you remember the 13 discussion about the question about whether or not
1 form. 2 BY MR. TISI: 3 Q. Do you know from reading that 4 document we can take it out, but I'm trying to 5 be respectful of the time here. 6 Do you know you said it was 7 peer-reviewed. 8 Do you know whether or not J&J 9 actually have you been informed that J&J 10 actually met with Health Canada and actually 11 provided not only plaintiffs' expert reports in 12 litigation, but also defendants' expert reports in 13 litigation? 14 A. I did not know that.	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI: 6 Q. I'm going to try to do this in a 7 really summary way because it's late. 8 A. (Nods head). 9 Q. If you would go you remember the 10 discussion of the PDQ? 11 A. Yes. 12 Q. Okay. And you remember the 13 discussion about the question about whether or not 14 there was inconsistency between O'Brien and the
1 form. 2 BY MR. TISI: 3 Q. Do you know from reading that 4 document we can take it out, but I'm trying to 5 be respectful of the time here. 6 Do you know you said it was 7 peer-reviewed. 8 Do you know whether or not J&J 9 actually have you been informed that J&J 10 actually met with Health Canada and actually 11 provided not only plaintiffs' expert reports in 12 litigation, but also defendants' expert reports in 13 litigation? 14 A. I did not know that. 15 MR. HEGARTY: Objection to the	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI: 6 Q. I'm going to try to do this in a 7 really summary way because it's late. 8 A. (Nods head). 9 Q. If you would go you remember the 10 discussion of the PDQ? 11 A. Yes. 12 Q. Okay. And you remember the 13 discussion about the question about whether or not 14 there was inconsistency between O'Brien and the 15 Woolen article.
1 form. 2 BY MR. TISI: 3 Q. Do you know from reading that 4 document we can take it out, but I'm trying to 5 be respectful of the time here. 6 Do you know you said it was 7 peer-reviewed. 8 Do you know whether or not J&J 9 actually have you been informed that J&J 10 actually met with Health Canada and actually 11 provided not only plaintiffs' expert reports in 12 litigation, but also defendants' expert reports in 13 litigation? 14 A. I did not know that. 15 MR. HEGARTY: Objection to the 16 form.	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI: 6 Q. I'm going to try to do this in a 7 really summary way because it's late. 8 A. (Nods head). 9 Q. If you would go you remember the 10 discussion of the PDQ? 11 A. Yes. 12 Q. Okay. And you remember the 13 discussion about the question about whether or not 14 there was inconsistency between O'Brien and the 15 Woolen article. 16 Do you remember that?
1 form. 2 BY MR. TISI: 3 Q. Do you know from reading that 4 document we can take it out, but I'm trying to 5 be respectful of the time here. 6 Do you know you said it was 7 peer-reviewed. 8 Do you know whether or not J&J 9 actually have you been informed that J&J 10 actually met with Health Canada and actually 11 provided not only plaintiffs' expert reports in 12 litigation, but also defendants' expert reports in 13 litigation? 14 A. I did not know that. 15 MR. HEGARTY: Objection to the 16 form. 17 BY MR. TISI:	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI: 6 Q. I'm going to try to do this in a 7 really summary way because it's late. 8 A. (Nods head). 9 Q. If you would go you remember the 10 discussion of the PDQ? 11 A. Yes. 12 Q. Okay. And you remember the 13 discussion about the question about whether or not 14 there was inconsistency between O'Brien and the 15 Woolen article. 16 Do you remember that? 17 A. Yes.
1 form. 2 BY MR. TISI: 3 Q. Do you know from reading that 4 document we can take it out, but I'm trying to 5 be respectful of the time here. 6 Do you know you said it was 7 peer-reviewed. 8 Do you know whether or not J&J 9 actually have you been informed that J&J 10 actually met with Health Canada and actually 11 provided not only plaintiffs' expert reports in 12 litigation, but also defendants' expert reports in 13 litigation? 14 A. I did not know that. 15 MR. HEGARTY: Objection to the 16 form. 17 BY MR. TISI: 18 Q. Okay. Now, let's talk a bit about	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI: 6 Q. I'm going to try to do this in a 7 really summary way because it's late. 8 A. (Nods head). 9 Q. If you would go you remember the 10 discussion of the PDQ? 11 A. Yes. 12 Q. Okay. And you remember the 13 discussion about the question about whether or not 14 there was inconsistency between O'Brien and the 15 Woolen article. 16 Do you remember that?
1 form. 2 BY MR. TISI: 3 Q. Do you know from reading that 4 document we can take it out, but I'm trying to 5 be respectful of the time here. 6 Do you know you said it was 7 peer-reviewed. 8 Do you know whether or not J&J 9 actually have you been informed that J&J 10 actually met with Health Canada and actually 11 provided not only plaintiffs' expert reports in 12 litigation, but also defendants' expert reports in 13 litigation? 14 A. I did not know that. 15 MR. HEGARTY: Objection to the 16 form. 17 BY MR. TISI: 18 Q. Okay. Now, let's talk a bit about 19 dose response.	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI: 6 Q. I'm going to try to do this in a 7 really summary way because it's late. 8 A. (Nods head). 9 Q. If you would go you remember the 10 discussion of the PDQ? 11 A. Yes. 12 Q. Okay. And you remember the 13 discussion about the question about whether or not 14 there was inconsistency between O'Brien and the 15 Woolen article. 16 Do you remember that? 17 A. Yes.
1 form. 2 BY MR. TISI: 3 Q. Do you know from reading that 4 document we can take it out, but I'm trying to 5 be respectful of the time here. 6 Do you know you said it was 7 peer-reviewed. 8 Do you know whether or not J&J 9 actually have you been informed that J&J 10 actually met with Health Canada and actually 11 provided not only plaintiffs' expert reports in 12 litigation, but also defendants' expert reports in 13 litigation? 14 A. I did not know that. 15 MR. HEGARTY: Objection to the 16 form. 17 BY MR. TISI: 18 Q. Okay. Now, let's talk a bit about 19 dose response. 20 MR. HEGARTY: Let me interrupt	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI: 6 Q. I'm going to try to do this in a 7 really summary way because it's late. 8 A. (Nods head). 9 Q. If you would go you remember the 10 discussion of the PDQ? 11 A. Yes. 12 Q. Okay. And you remember the 13 discussion about the question about whether or not 14 there was inconsistency between O'Brien and the 15 Woolen article. 16 Do you remember that? 17 A. Yes. 18 Q. Okay. I'm happy to show you both of
1 form. 2 BY MR. TISI: 3 Q. Do you know from reading that 4 document we can take it out, but I'm trying to 5 be respectful of the time here. 6 Do you know you said it was 7 peer-reviewed. 8 Do you know whether or not J&J 9 actually have you been informed that J&J 10 actually met with Health Canada and actually 11 provided not only plaintiffs' expert reports in 12 litigation, but also defendants' expert reports in 13 litigation? 14 A. I did not know that. 15 MR. HEGARTY: Objection to the 16 form. 17 BY MR. TISI: 18 Q. Okay. Now, let's talk a bit about 19 dose response. 20 MR. HEGARTY: Let me interrupt 21 for just a second. How much longer are	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI: 6 Q. I'm going to try to do this in a 7 really summary way because it's late. 8 A. (Nods head). 9 Q. If you would go you remember the 10 discussion of the PDQ? 11 A. Yes. 12 Q. Okay. And you remember the 13 discussion about the question about whether or not 14 there was inconsistency between O'Brien and the 15 Woolen article. 16 Do you remember that? 17 A. Yes. 18 Q. Okay. I'm happy to show you both of 19 them.
1 form. 2 BY MR. TISI: 3 Q. Do you know from reading that 4 document we can take it out, but I'm trying to 5 be respectful of the time here. 6 Do you know you said it was 7 peer-reviewed. 8 Do you know whether or not J&J 9 actually have you been informed that J&J 10 actually met with Health Canada and actually 11 provided not only plaintiffs' expert reports in 12 litigation, but also defendants' expert reports in 13 litigation? 14 A. I did not know that. 15 MR. HEGARTY: Objection to the 16 form. 17 BY MR. TISI: 18 Q. Okay. Now, let's talk a bit about 19 dose response. 20 MR. HEGARTY: Let me interrupt 21 for just a second. How much longer are 22 you going to go? I have to call to	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI: 6 Q. I'm going to try to do this in a 7 really summary way because it's late. 8 A. (Nods head). 9 Q. If you would go you remember the 10 discussion of the PDQ? 11 A. Yes. 12 Q. Okay. And you remember the 13 discussion about the question about whether or not 14 there was inconsistency between O'Brien and the 15 Woolen article. 16 Do you remember that? 17 A. Yes. 18 Q. Okay. I'm happy to show you both of 19 them. 20 A. I have them in front of me.
1 form. 2 BY MR. TISI: 3 Q. Do you know from reading that 4 document we can take it out, but I'm trying to 5 be respectful of the time here. 6 Do you know you said it was 7 peer-reviewed. 8 Do you know whether or not J&J 9 actually have you been informed that J&J 10 actually met with Health Canada and actually 11 provided not only plaintiffs' expert reports in 12 litigation, but also defendants' expert reports in 13 litigation? 14 A. I did not know that. 15 MR. HEGARTY: Objection to the 16 form. 17 BY MR. TISI: 18 Q. Okay. Now, let's talk a bit about 19 dose response. 20 MR. HEGARTY: Let me interrupt 21 for just a second. How much longer are 22 you going to go? I have to call to 23 change my flight.	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI: 6 Q. I'm going to try to do this in a 7 really summary way because it's late. 8 A. (Nods head). 9 Q. If you would go you remember the 10 discussion of the PDQ? 11 A. Yes. 12 Q. Okay. And you remember the 13 discussion about the question about whether or not 14 there was inconsistency between O'Brien and the 15 Woolen article. 16 Do you remember that? 17 A. Yes. 18 Q. Okay. I'm happy to show you both of 19 them. 20 A. I have them in front of me. 21 Q. Okay. But based upon your review of
1 form. 2 BY MR. TISI: 3 Q. Do you know from reading that 4 document we can take it out, but I'm trying to 5 be respectful of the time here. 6 Do you know you said it was 7 peer-reviewed. 8 Do you know whether or not J&J 9 actually have you been informed that J&J 10 actually met with Health Canada and actually 11 provided not only plaintiffs' expert reports in 12 litigation, but also defendants' expert reports in 13 litigation? 14 A. I did not know that. 15 MR. HEGARTY: Objection to the 16 form. 17 BY MR. TISI: 18 Q. Okay. Now, let's talk a bit about 19 dose response. 20 MR. HEGARTY: Let me interrupt 21 for just a second. How much longer are 22 you going to go? I have to call to	Page 493 1 MR. HEGARTY: I have to call 2 and reschedule before it takes off. 3 (Recess: 7:02 p.m 4 7:34 p.m.) 5 BY MR. TISI: 6 Q. I'm going to try to do this in a 7 really summary way because it's late. 8 A. (Nods head). 9 Q. If you would go you remember the 10 discussion of the PDQ? 11 A. Yes. 12 Q. Okay. And you remember the 13 discussion about the question about whether or not 14 there was inconsistency between O'Brien and the 15 Woolen article. 16 Do you remember that? 17 A. Yes. 18 Q. Okay. I'm happy to show you both of 19 them. 20 A. I have them in front of me. 21 Q. Okay. But based upon your review of 22 O'Brien, what did Woolen add what did Woolen

D 404	D 400
Page 494 1 trying to assess exposure in a more comprehensive	Page 496 1 using the O'Brien data.
2 way.	2 BY MR. TISI:
3 Q. Okay.	3 Q. Okay. In what patient population?
4 A. I believe that's what they were	4 A. The Nurses' Health Study.
5 doing.	5 Q. Okay. Was that the highest
6 Q. Okay. And we're talking about	6 exposure?
7 exposure, we're talking about to be clear,	7 A. I believe it was.
8 we're talking about numbers of applications, which	8 Q. Okay. Okay. Did Woolen support
9 is the thing that you have been concerned about	9 does Woolen support your opinion that with
10 since the 1990s, correct?	10 increasing increasing exposure comes increasing
11 A. That's correct.	11 risk?
12 Q. Okay. And to be simple about it,	12 A. It certainly confirms or supports
13 it's number of years times number of applications,	13 it, yes.
14 correct?	-
	14 Q. Okay. Let me see. I do not think
MR. HEGARTY: Objection to the	15 that I have any other things, but let me just
16 form. 17 THE WITNESS: Taking into	16 let me just take a quick look here.17 Can you pull out the Taher article
	· 1
18 account both years and applications is	18 that's Exhibit Number 26 since we're talking about
the appropriate way to do it. 20 BY MR. TISI:	19 dose response.
	20 A. Yeah, because the one I have in my
Q. Okay. Did she do that? Did	21 in my notebook is the wrong one. So do we have
22 Woolen did the Woolen paper actually do that?	22 that?
A. Well, I can't see exactly where they	Q. Yeah, I have a copy of it.
24 did that.	24 A. Okay.
Page 495	Page 497
1 Q. Okay. So let me ask you this	1 MR. TISI: Do you mind showing
2 question.	him my copy? Actually, I think I have
3 A. Yeah.	3 it.
4 Q. There was the suggestion before, and	4 THE WITNESS: Because I
5 I want to be clear.	5 reviewed I reviewed the correct one,
6 Is Woolen inconsistent with or did	6 but copied the wrong one.
7 it just look at different things than O'Brien?	7 (Discussion off the record)
8 A. Yeah. No.	8 THE WITNESS: Yeah, that's the
9 MR. HEGARTY: Objection to	9 one.
10 form.	10 BY MR. TISI:
11 THE WITNESS: No, I do not see	11 Q. I'm going to ask you to look at
them as being substantially different.	12 something different than on Michelle's copy, but
13 BY MR. TISI:	13 this is Exhibit Number 23.
14 Q. Okay.	14 A. Okay.
15 A. Particularly when you look at the	15 Q. I'll get you a clean one if you need
16 confidence intervals.	16 to but here is
17 Q. What did Woolen look at and what did	•
18 Woolen find?	18 Q. I'm going to ask you to look at
19 A. Woolen found	19 table number this is Exhibit Number 23, but I'm
MR. HEGARTY: Objection to the	20 going to show you a clean copy of it.
21 form.	21 If you would go to Table 3.
THE WITNESS: Woolen found	A. Oh, you have it. Okay.
overall association of 1.4 with a confidence interval of 1.17 and 1.68	Q. Do you seeA. Right.
	1/1 A Healt

	Page 498		Page 500
1	Q there is a table?	1	at.
2	A. You mean the figure? (Indicates).	2	MR. TISI: Okay.
3	Q. No, I mean the next page. Can I see	3	FURTHER EXAMINATION
4	it? I just want to make sure.	4	BY MR. HEGARTY:
5	A. (Indicates).	5	Q. Do you have the exhibits in front of
6	Q. No, that's not the right one. I	6	you, Dr. Harlow, that Mr. Tisi asked you about?
7	don't have my copy.	7	A. I have them. Yes, I guess they're
8	Here it is. Table 2.	8	right here. Okay.
9	A. Table 2. Uh-huh. Yes.	9	Q. The first study he asked you about
10	Q. Okay. Do you see them break out, as	10	was P1, "The association between douching, genital
11	you did, break out frequency of exposure?	11	talc use, and the risk of prevalent and incident
12	A. They have frequency of use, duration	12	cervical cancer"?
13	of use.	13	A. Yes.
14	Q. Okay. When they look at frequency	14	Q. You don't cite to this article in
15	greater than 10,000, do you see evidence of a dose	15	this body of your report, correct?
16	response?	16	A. No, I do not.
17	A. No. No. The frequency is low,	17	Q. Did you find this article on your
18	medium, high and duration is 10 years, 10 to 20	18	own?
19	years, 20 plus years.	19	A. No.
20	Q. Okay. Do you see when you look at	20	Q. Did plaintiffs' counsel provide it
21	those together, you see increasing increasing	21	to you?
22	dose response?	22	A. They did.
23	A. I don't	23	Q. Did you even reference this article
24	MR. HEGARTY: Objection to the	24	in your list of references or Materials Considered
	Page 499		Page 501
1	form.		list, if you know?
2	THE WITNESS: I don't see	2	A. Yeah. No, I did not.
3	them put together.	3	MR. TISI: Well, it's in the
		4	Materials Considered list we provided
5	Q. Let me see. I'm not looking at the		
		5	you.
	right one. Table 2, 3.2.	6	MR. HEGARTY: And that's
7	MS. PARFITT: Table 2, Chris.	6 7	MR. HEGARTY: And that's for is it in the box?
7 8	MS. PARFITT: Table 2, Chris. BY MR. TISI:	6 7 8	MR. HEGARTY: And that's for is it in the box? MR. TISI: It's in the box.
7 8 9	MS. PARFITT: Table 2, Chris. BY MR. TISI: Q. Actually, let me just let me	6 7 8 9	MR. HEGARTY: And that's for is it in the box? MR. TISI: It's in the box. It's in the box.
7 8 9 10	MS. PARFITT: Table 2, Chris. BY MR. TISI: Q. Actually, let me just let me just I don't have my copy. So I'm not going to	6 7 8 9 10	MR. HEGARTY: And that's for is it in the box? MR. TISI: It's in the box. It's in the box. MR. HEGARTY: Okay.
7 8 9 10 11	MS. PARFITT: Table 2, Chris. BY MR. TISI: Q. Actually, let me just let me just I don't have my copy. So I'm not going to do that.	6 7 8 9 10 11	MR. HEGARTY: And that's for is it in the box? MR. TISI: It's in the box. It's in the box. MR. HEGARTY: Okay. MR. TISI: May I have it?
7 8 9 10 11 12	MS. PARFITT: Table 2, Chris. BY MR. TISI: Q. Actually, let me just let me just I don't have my copy. So I'm not going to do that. I have no other questions right now.	6 7 8 9 10 11 12	MR. HEGARTY: And that's for is it in the box? MR. TISI: It's in the box. It's in the box. MR. HEGARTY: Okay. MR. TISI: May I have it? BY MR. HEGARTY:
7 8 9 10 11 12 13	MS. PARFITT: Table 2, Chris. BY MR. TISI: Q. Actually, let me just let me just I don't have my copy. So I'm not going to do that. I have no other questions right now. Why don't we go through and let Mr. Hegarty ask	6 7 8 9 10 11 12 13	MR. HEGARTY: And that's for is it in the box? MR. TISI: It's in the box. It's in the box. MR. HEGARTY: Okay. MR. TISI: May I have it? BY MR. HEGARTY: Q. Please turn over to page 2 of this
7 8 9 10 11 12 13 14	MS. PARFITT: Table 2, Chris. BY MR. TISI: Q. Actually, let me just let me just I don't have my copy. So I'm not going to do that. I have no other questions right now. Why don't we go through and let Mr. Hegarty ask his questions.	6 7 8 9 10 11 12 13 14	MR. HEGARTY: And that's for is it in the box? MR. TISI: It's in the box. It's in the box. MR. HEGARTY: Okay. MR. TISI: May I have it? BY MR. HEGARTY: Q. Please turn over to page 2 of this article.
7 8 9 10 11 12 13 14 15	MS. PARFITT: Table 2, Chris. BY MR. TISI: Q. Actually, let me just let me just I don't have my copy. So I'm not going to do that. I have no other questions right now. Why don't we go through and let Mr. Hegarty ask his questions. (Recess: 7:41 p.m	6 7 8 9 10 11 12 13 14 15	MR. HEGARTY: And that's for is it in the box? MR. TISI: It's in the box. It's in the box. MR. HEGARTY: Okay. MR. TISI: May I have it? BY MR. HEGARTY: Q. Please turn over to page 2 of this article. A. Yes. Under what section?
7 8 9 10 11 12 13 14 15 16	MS. PARFITT: Table 2, Chris. BY MR. TISI: Q. Actually, let me just let me just I don't have my copy. So I'm not going to do that. I have no other questions right now. Why don't we go through and let Mr. Hegarty ask his questions. (Recess: 7:41 p.m 7:47 p.m.)	6 7 8 9 10 11 12 13 14 15 16	MR. HEGARTY: And that's for is it in the box? MR. TISI: It's in the box. It's in the box. MR. HEGARTY: Okay. MR. TISI: May I have it? BY MR. HEGARTY: Q. Please turn over to page 2 of this article. A. Yes. Under what section? MR. TISI: Here.
7 8 9 10 11 12 13 14 15 16 17	MS. PARFITT: Table 2, Chris. BY MR. TISI: Q. Actually, let me just let me just I don't have my copy. So I'm not going to do that. I have no other questions right now. Why don't we go through and let Mr. Hegarty ask his questions. (Recess: 7:41 p.m 7:47 p.m.) MR. HEGARTY: At the outset, I	6 7 8 9 10 11 12 13 14 15 16 17	MR. HEGARTY: And that's for is it in the box? MR. TISI: It's in the box. It's in the box. MR. HEGARTY: Okay. MR. TISI: May I have it? BY MR. HEGARTY: Q. Please turn over to page 2 of this article. A. Yes. Under what section? MR. TISI: Here. THE WITNESS: Okay.
7 8 9 10 11 12 13 14 15 16 17 18	MS. PARFITT: Table 2, Chris. BY MR. TISI: Q. Actually, let me just let me just I don't have my copy. So I'm not going to do that. I have no other questions right now. Why don't we go through and let Mr. Hegarty ask his questions. (Recess: 7:41 p.m 7:47 p.m.) MR. HEGARTY: At the outset, I just want to state an objection for the	6 7 8 9 10 11 12 13 14 15 16 17	MR. HEGARTY: And that's for is it in the box? MR. TISI: It's in the box. It's in the box. MR. HEGARTY: Okay. MR. TISI: May I have it? BY MR. HEGARTY: Q. Please turn over to page 2 of this article. A. Yes. Under what section? MR. TISI: Here. THE WITNESS: Okay. BY MR. HEGARTY:
7 8 9 10 11 12 13 14 15 16 17 18	MS. PARFITT: Table 2, Chris. BY MR. TISI: Q. Actually, let me just let me just I don't have my copy. So I'm not going to do that. I have no other questions right now. Why don't we go through and let Mr. Hegarty ask his questions. (Recess: 7:41 p.m 7:47 p.m.) MR. HEGARTY: At the outset, I just want to state an objection for the record, that is, to the extent	6 7 8 9 10 11 12 13 14 15 16 17 18	MR. HEGARTY: And that's for is it in the box? MR. TISI: It's in the box. It's in the box. MR. HEGARTY: Okay. MR. TISI: May I have it? BY MR. HEGARTY: Q. Please turn over to page 2 of this article. A. Yes. Under what section? MR. TISI: Here. THE WITNESS: Okay. BY MR. HEGARTY: Q. In the second I'm sorry. In the
7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. PARFITT: Table 2, Chris. BY MR. TISI: Q. Actually, let me just let me just I don't have my copy. So I'm not going to do that. I have no other questions right now. Why don't we go through and let Mr. Hegarty ask his questions. (Recess: 7:41 p.m 7:47 p.m.) MR. HEGARTY: At the outset, I just want to state an objection for the record, that is, to the extent Dr. Rothman I'm sorry Dr. Harlow	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. HEGARTY: And that's for is it in the box? MR. TISI: It's in the box. It's in the box. MR. HEGARTY: Okay. MR. TISI: May I have it? BY MR. HEGARTY: Q. Please turn over to page 2 of this article. A. Yes. Under what section? MR. TISI: Here. THE WITNESS: Okay. BY MR. HEGARTY: Q. In the second I'm sorry. In the first full paragraph, second sentence, it reads:
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. PARFITT: Table 2, Chris. BY MR. TISI: Q. Actually, let me just let me just I don't have my copy. So I'm not going to do that. I have no other questions right now. Why don't we go through and let Mr. Hegarty ask his questions. (Recess: 7:41 p.m 7:47 p.m.) MR. HEGARTY: At the outset, I just want to state an objection for the record, that is, to the extent Dr. Rothman I'm sorry Dr. Harlow was asked about or brought up opinions	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. HEGARTY: And that's for is it in the box? MR. TISI: It's in the box. It's in the box. MR. HEGARTY: Okay. MR. TISI: May I have it? BY MR. HEGARTY: Q. Please turn over to page 2 of this article. A. Yes. Under what section? MR. TISI: Here. THE WITNESS: Okay. BY MR. HEGARTY: Q. In the second I'm sorry. In the first full paragraph, second sentence, it reads: "Observational studies have
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. PARFITT: Table 2, Chris. BY MR. TISI: Q. Actually, let me just let me just I don't have my copy. So I'm not going to do that. I have no other questions right now. Why don't we go through and let Mr. Hegarty ask his questions. (Recess: 7:41 p.m 7:47 p.m.) MR. HEGARTY: At the outset, I just want to state an objection for the record, that is, to the extent Dr. Rothman I'm sorry Dr. Harlow was asked about or brought up opinions concerning studies or facts that were not	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. HEGARTY: And that's for is it in the box? MR. TISI: It's in the box. It's in the box. MR. HEGARTY: Okay. MR. HEGARTY: Okay. MR. TISI: May I have it? BY MR. HEGARTY: Q. Please turn over to page 2 of this article. A. Yes. Under what section? MR. TISI: Here. THE WITNESS: Okay. BY MR. HEGARTY: Q. In the second I'm sorry. In the first full paragraph, second sentence, it reads: "Observational studies have documented associations between douching and HPV
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. PARFITT: Table 2, Chris. BY MR. TISI: Q. Actually, let me just let me just I don't have my copy. So I'm not going to do that. I have no other questions right now. Why don't we go through and let Mr. Hegarty ask his questions. (Recess: 7:41 p.m 7:47 p.m.) MR. HEGARTY: At the outset, I just want to state an objection for the record, that is, to the extent Dr. Rothman I'm sorry Dr. Harlow was asked about or brought up opinions	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. HEGARTY: And that's for is it in the box? MR. TISI: It's in the box. It's in the box. MR. HEGARTY: Okay. MR. TISI: May I have it? BY MR. HEGARTY: Q. Please turn over to page 2 of this article. A. Yes. Under what section? MR. TISI: Here. THE WITNESS: Okay. BY MR. HEGARTY: Q. In the second I'm sorry. In the first full paragraph, second sentence, it reads: "Observational studies have

	P 502		D 504
1	Page 502 several retrospective case-control studies have	1	Page 504 and ovarian cancer?
	reported positive association between douching and	2	A. Well, for one thing, The Sister
	cervical cancer. We did not identify any		Study excluded 160 cases, and so I don't have a
	prospective studies of relationship between		lot of confidence in their findings with respect
5	douching and cervical cancer. Such studies are	5	to talc and ovarian cancer.
	needed to rule out recall bias which can result	6	Q. But did I properly summarize the
	when an individual affected by a disease		results of that Sister Study as published in the
	over-report their exposure to an agent of		Gonzalez paper?
9		9	A. Yes, there was there was an
10	You agree with that statement, don't	-	associate between powder talc use and subsequent
	you?		ovarian cancer website. Douching was more common
12	MR. TISI: Objection.		among talc users, yes.
13	THE WITNESS: (Reviews	13	Oh, well. Douching was more common
14	document.)		among talc users and douching at baseline was
15	•		associated with increased subsequent risk of
16	Well, again, you if it's	1	*
	conducted appropriately and you can		ovarian cancer. Yes, that's what they said.
17	actually identify those who were exposed	17	Q. With regard to the exposure data
18	to douching and those who were not from		that the Gonzalez study collected, it asked about
19	the beginning of their exposure		talc use in the prior 12 months, correct?
20	assessment, yes, then it would eliminate	20	A. That's correct.
21	recall bias.	21	Q. If talc use is an habitual practice,
	BY MR. HEGARTY:	1	then talc use in the last 12 months would actually
23	Q. What O'Brien and her coauthors are		reflect long-term talc use, correct?
24	saying here is that they looked at the	24	A. Possibly, but, again, the problem is
1	Page 503	.	Page 505
_	case-control studies, but that prospective studies		is that these are women who are who were
$\frac{1}{2}$	are needed to rule out recall bias.		followed forward in time who for whatever reason
3	That's what that says, right?		had not developed ovarian cancer by the time they
4	A. That's what they're alluding to.		were enrolled in this by the time they were
5	Q. Okay. Thank you.		followed in this study. So what we call a
6	Have you analyzed or let me start		depletion of susceptibles, for whatever reason
7		7	they could very well have been resilient to the
8	Have you done a comprehensive	8	development of ovarian cancer.
9	;	9	So I can't with that kind of
	a risk factor/cause for ovarian cancer?	10	,
11	A. I have not I have not done a		put any stock in this in these findings,
	primary analysis around that, but I would have to	1	
	look in my previous studies to see whether I		cancer.
- 1	looked at douching as a potential covariate.	14	Q. But my question was simply with
15	Q. Do you consider douching as a risk		regard to identifying exposure of talc in the last
	factor for ovarian cancer?		12 months.
17	A. I have not done an extensive search	17	A. If some
	of the literature as to what it suggests there,	18	Q. If it is a habitual habit, wouldn't
	but I believe I was looking at douching as a	19	
- 1	potential covariate.	20	last 12 months?
21	Q. Do you recall that the Gonzalez	21	A. Well, if it's just asking, have you
	study concerning The Sister Study did find an	1	ever used it in the last 12 months, no, that would
	association statistically significant between		not. But if you had used it in the last 12 months
24	douching and ovarian cancer but not for talc use	24	every day applying it to the perineum, yes, to me,

Page 508

Page 509

Page 506

- 1 that would suggest that they were probably using
- 2 it for longer periods of time.
- But if they had simply asked, have 3
- 4 you used talc in the last 12 months, it's your
- 5 opinion that that would not tell you anything
- 6 about long-term use before the last 12 months?
- I wouldn't -- I would be hesitant to
- 8 make that assumption.
- 9 Please turn to Plaintiff's
- 10 Exhibit 2, your study with Dr. Weiss.
- 11 A. Yes.
- 12 That's entitled "A Case-Control O.
- 13 Study of Borderline Ovarian Tumors: The Influence
- 14 of Perineal Exposure to Talc."
- 15 A. Yes.
- 16 Q. Do you have that in front of you?
- 17 A. Yes, I do.
- 18 Q. In this study, you reported/found as
- 19 stated in the abstract that neither the perineal
- 20 application of baby powder nor the perineal
- 21 application of corn starch was associated with an
- 22 appreciable altered risk of borderline ovarian
- 23 tumors, correct?
- 24 That's what we found. Α

- Q. Did you report in this study that
 - 2 was marked as Exhibit P2 that women reported using
 - 3 Shower to Shower?
 - 4 A. I don't -- I'm trying to look to see
 - 5 if we specifically stated that that was -- it was
 - 6 asked.

9

12

- 7 (Reviews document.)
- 8 No, I did not report that.
 - Well, let me just quickly look in
- 10 the methods of the assessment of -- of it.
- (Reviews document.) 11
 - "Baby powder, deodorizing powder,
- 13 and other unspecified talcum or dusting powders or
- 14 as corn starch."
- 15 So I cannot specifically say that
- 16 the deodorizing powder was talc-based, but if it
- 17 was corn starch, they would have said corn starch,
- 18 which we specifically asked that.
- 19 In fact, if you look over in the
- 20 "Methods" section on page 2 ---
- 21 A. Yes.
- 22 -- your open-ended question asked
- 23 women to specify the type but not the brand name,
- 24 correct?

Page 507

- Q. So you did not find an association 1
- 2 between talcum powder use and borderline tumors in 3 this study, correct?
- 4 Actually, that's not true. We found
- 5 an association with deodorizing powders and
- 6 ovarian cancer, and deodorizing powders are known
- 7 to be talc-based.
- The question, though, put to the
- 9 women in the study was not whether your
- 10 deodorizing powder contained talc, it was simply,
- 11 did you use deodorizing powder, correct?
- 12 A. That's correct.
- 13 Q. In the end, you don't know whether
- 14 the deodorizing powder that the women reported
- 15 using contained talc, right?
- 16 Well, many of them suggested or even
- 17 indicated that it was Shower to Shower, and I know
- 18 that Shower to Shower deodorizing powder does
- 19 contain talc. I don't know of deodorizing powders
- 20 other than corn starch, and we specifically asked
- 21 about corn starch, would other than -- other than
- 22 those that are specifically indicated as corn
- 23 starch, deodorizing powder I would make the
- 24 assumption was a talc-based product.

- 1 A. That is correct.
- 2 Q. So they would not in answering that
- 3 question have specified Shower to Shower, which is
- 4 a brand name product, correct?
- 5 We did not analyze that data. We
- 6 did collect that information, but it was not
- 7 considered reliable to be able to actually look at
- 8 it that way, and so that's the reason why we
- 9 analyzed it this way.
- 10 Q. In this study, you did not find that
- 11 perineal application of baby powder was associated
- 12 with an appreciable altered risk of borderline
- 13 ovarian tumors, correct?
- 14 That's correct. Except that
- 15 deodorizing powder in combination was associated
- 16 with risk. As you can see in Table 1, deodorizing
- 17 powder only was associated with 3.5 fold
- 18 association and deodorizing powder only or in
- 19 combination was associated with 2.8 fold 20 association.
- 21 Q. My question, though, was as specific
- 22 to baby powder.
- 23 A. That is correct. Baby powder.
 - Q. You did not find an association

24

	Page 510		Page 512
1	between baby powder use and borderline ovarian	1	Q. Next you say:
1	tumors, correct?	2	"Because our associations are based
3	A. It yes.		upon responses from participating cases and
4	Q. I believe you testified earlier, but		controls, the validity of our results depends upon
5	please correct me if I'm wrong, that you did not		the assumption that respondents and
	do a separate analysis let me restart that.		non-respondents were similar with respect to talc
7	Strike that.		and other relevant exposures, or that the
8	Am I correct that you do not have an		magnitude of any respondent-non-respondent
9	opinion as to whether talcum powder use causes		difference was similar for cases and controls.
	borderline tumors?		Because the interview provided the only source of
11	A. I cannot make that assumption only		'exposure' information, we were unable to assess
12	because I believe this may be the only study that		the likelihood of this assumption."
	specifically focused on borderline ovarian tumors.	13	That's all accurate, correct?
14	Q. Do you have an opinion as to whether	14	A. That is correct. Because non
	talcum powder use can cause endometrial cancer,		because nondifferential misclassification would
	that is, cancer of the endometrium?		drive the association towards the null, which
17	A. I have not reviewed that literature.		means that the associations we see are an
18	Q. Please turn to Exhibit Number 3.		underestimate of the true association.
19		19	Q. You were also asked questions about
20	A. Right. Is that the 1992 article?	20	•
21	Q. Yes, Doctor. With regard to that	21	You were also asked questions about
l	article, please turn to page 25.		the FDA workshop that you attended back in 1994,
23	This first, the last full paragraph		correct?
	on the right-hand side, it reads:	24	A. Yes.
	Daga 511		Page 512
1	Page 511 "Non-causal explanations are	1	Page 513 O Who invited you to that workshop?
1 2	"Non-causal explanations are	1 2	Q. Who invited you to that workshop?
2	"Non-causal explanations are possible in any epidemiologic research."	2	Q. Who invited you to that workshop?A. I don't recall who actually sent me
2 3	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement?	2 3	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was
2 3 4	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes.	2 3 4	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it.
2 3 4 5	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write:	2 3 4 5	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's
2 3 4	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write: "We cannot rule out the possibility	2 3 4 5 6	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's my sticky note on it, which is not
2 3 4 5 6 7	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write: "We cannot rule out the possibility of differential over- or under-reporting of talc	2 3 4 5 6 7	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's my sticky note on it, which is not intended.
2 3 4 5 6 7 8	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write: "We cannot rule out the possibility of differential over- or under-reporting of talc exposure in our cases and controls, especially in	2 3 4 5 6 7 8	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's my sticky note on it, which is not intended. THE WITNESS: Sorry.
2 3 4 5 6 7 8 9	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write: "We cannot rule out the possibility of differential over- or under-reporting of talc exposure in our cases and controls, especially in those with reproductive events that enhance odds	2 3 4 5 6 7 8 9	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's my sticky note on it, which is not intended. THE WITNESS: Sorry. BY MR. HEGARTY:
2 3 4 5 6 7 8 9	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write: "We cannot rule out the possibility of differential over- or under-reporting of talc exposure in our cases and controls, especially in those with reproductive events that enhance odds ratios."	2 3 4 5 6 7 8 9	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's my sticky note on it, which is not intended. THE WITNESS: Sorry. BY MR. HEGARTY: Q. Please look at P4, the Carr 1995
2 3 4 5 6 7 8 9 10 11	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write: "We cannot rule out the possibility of differential over- or under-reporting of talc exposure in our cases and controls, especially in those with reproductive events that enhance odds ratios." Is that a correct statement?	2 3 4 5 6 7 8 9	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's my sticky note on it, which is not intended. THE WITNESS: Sorry. BY MR. HEGARTY:
2 3 4 5 6 7 8 9 10 11 12	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write: "We cannot rule out the possibility of differential over- or under-reporting of talc exposure in our cases and controls, especially in those with reproductive events that enhance odds ratios." Is that a correct statement? A. That's what I said. That's correct,	2 3 4 5 6 7 8 9 10 11 12	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's my sticky note on it, which is not intended. THE WITNESS: Sorry. BY MR. HEGARTY: Q. Please look at P4, the Carr 1995 paper that you talked about with A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write: "We cannot rule out the possibility of differential over- or under-reporting of talc exposure in our cases and controls, especially in those with reproductive events that enhance odds ratios." Is that a correct statement? A. That's what I said. That's correct, yes.	2 3 4 5 6 7 8 9 10 11 12 13	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's my sticky note on it, which is not intended. THE WITNESS: Sorry. BY MR. HEGARTY: Q. Please look at P4, the Carr 1995 paper that you talked about with A. Yes. Q counsel for plaintiffs and you
2 3 4 5 6 7 8 9 10 11 12 13 14	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write: "We cannot rule out the possibility of differential over- or under-reporting of talc exposure in our cases and controls, especially in those with reproductive events that enhance odds ratios." Is that a correct statement? A. That's what I said. That's correct, yes. Q. You go on to say:	2 3 4 5 6 7 8 9 10 11 12 13 14	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's my sticky note on it, which is not intended. THE WITNESS: Sorry. BY MR. HEGARTY: Q. Please look at P4, the Carr 1995 paper that you talked about with A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write: "We cannot rule out the possibility of differential over- or under-reporting of talc exposure in our cases and controls, especially in those with reproductive events that enhance odds ratios." Is that a correct statement? A. That's what I said. That's correct, yes. Q. You go on to say: "In addition, though we were	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's my sticky note on it, which is not intended. THE WITNESS: Sorry. BY MR. HEGARTY: Q. Please look at P4, the Carr 1995 paper that you talked about with A. Yes. Q counsel for plaintiffs and you talked about with me. A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write: "We cannot rule out the possibility of differential over- or under-reporting of talc exposure in our cases and controls, especially in those with reproductive events that enhance odds ratios." Is that a correct statement? A. That's what I said. That's correct, yes. Q. You go on to say: "In addition, though we were successful in interviewing 69% of eligible ovarian	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's my sticky note on it, which is not intended. THE WITNESS: Sorry. BY MR. HEGARTY: Q. Please look at P4, the Carr 1995 paper that you talked about with A. Yes. Q counsel for plaintiffs and you talked about with me. A. Yes. Q. You told counsel for plaintiffs that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write: "We cannot rule out the possibility of differential over- or under-reporting of talc exposure in our cases and controls, especially in those with reproductive events that enhance odds ratios." Is that a correct statement? A. That's what I said. That's correct, yes. Q. You go on to say: "In addition, though we were successful in interviewing 69% of eligible ovarian cancer cases and 81% of eligible controls	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's my sticky note on it, which is not intended. THE WITNESS: Sorry. BY MR. HEGARTY: Q. Please look at P4, the Carr 1995 paper that you talked about with A. Yes. Q counsel for plaintiffs and you talked about with me. A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write: "We cannot rule out the possibility of differential over- or under-reporting of talc exposure in our cases and controls, especially in those with reproductive events that enhance odds ratios." Is that a correct statement? A. That's what I said. That's correct, yes. Q. You go on to say: "In addition, though we were successful in interviewing 69% of eligible ovarian cancer cases and 81% of eligible controls contacted, we cannot assess whether the cases and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's my sticky note on it, which is not intended. THE WITNESS: Sorry. BY MR. HEGARTY: Q. Please look at P4, the Carr 1995 paper that you talked about with A. Yes. Q counsel for plaintiffs and you talked about with me. A. Yes. Q. You told counsel for plaintiffs that you felt that the summary as reported by Mr. Carr was not fair and balanced.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write: "We cannot rule out the possibility of differential over- or under-reporting of talc exposure in our cases and controls, especially in those with reproductive events that enhance odds ratios." Is that a correct statement? A. That's what I said. That's correct, yes. Q. You go on to say: "In addition, though we were successful in interviewing 69% of eligible ovarian cancer cases and 81% of eligible controls contacted, we cannot assess whether the cases and controls not interviewed could have selectively	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's my sticky note on it, which is not intended. THE WITNESS: Sorry. BY MR. HEGARTY: Q. Please look at P4, the Carr 1995 paper that you talked about with A. Yes. Q counsel for plaintiffs and you talked about with me. A. Yes. Q. You told counsel for plaintiffs that you felt that the summary as reported by Mr. Carr
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write: "We cannot rule out the possibility of differential over- or under-reporting of talc exposure in our cases and controls, especially in those with reproductive events that enhance odds ratios." Is that a correct statement? A. That's what I said. That's correct, yes. Q. You go on to say: "In addition, though we were successful in interviewing 69% of eligible ovarian cancer cases and 81% of eligible controls contacted, we cannot assess whether the cases and controls not interviewed could have selectively differentiated could have selectively differed	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's my sticky note on it, which is not intended. THE WITNESS: Sorry. BY MR. HEGARTY: Q. Please look at P4, the Carr 1995 paper that you talked about with A. Yes. Q counsel for plaintiffs and you talked about with me. A. Yes. Q. You told counsel for plaintiffs that you felt that the summary as reported by Mr. Carr was not fair and balanced. Is that what you believe? A. I do believe that to be the case
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write: "We cannot rule out the possibility of differential over- or under-reporting of talc exposure in our cases and controls, especially in those with reproductive events that enhance odds ratios." Is that a correct statement? A. That's what I said. That's correct, yes. Q. You go on to say: "In addition, though we were successful in interviewing 69% of eligible ovarian cancer cases and 81% of eligible controls contacted, we cannot assess whether the cases and controls not interviewed could have selectively differentiated could have selectively differed in their reproductive characteristics or in their	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's my sticky note on it, which is not intended. THE WITNESS: Sorry. BY MR. HEGARTY: Q. Please look at P4, the Carr 1995 paper that you talked about with A. Yes. Q counsel for plaintiffs and you talked about with me. A. Yes. Q. You told counsel for plaintiffs that you felt that the summary as reported by Mr. Carr was not fair and balanced. Is that what you believe? A. I do believe that to be the case with respect to the epidemiologic evidence.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write: "We cannot rule out the possibility of differential over- or under-reporting of talc exposure in our cases and controls, especially in those with reproductive events that enhance odds ratios." Is that a correct statement? A. That's what I said. That's correct, yes. Q. You go on to say: "In addition, though we were successful in interviewing 69% of eligible ovarian cancer cases and 81% of eligible controls contacted, we cannot assess whether the cases and controls not interviewed could have selectively differentiated could have selectively differed	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's my sticky note on it, which is not intended. THE WITNESS: Sorry. BY MR. HEGARTY: Q. Please look at P4, the Carr 1995 paper that you talked about with A. Yes. Q counsel for plaintiffs and you talked about with me. A. Yes. Q. You told counsel for plaintiffs that you felt that the summary as reported by Mr. Carr was not fair and balanced. Is that what you believe? A. I do believe that to be the case with respect to the epidemiologic evidence. Q. Have you ever said or made that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	"Non-causal explanations are possible in any epidemiologic research." Is that a correct statement? A. Yes. Q. Okay. You go on to write: "We cannot rule out the possibility of differential over- or under-reporting of talc exposure in our cases and controls, especially in those with reproductive events that enhance odds ratios." Is that a correct statement? A. That's what I said. That's correct, yes. Q. You go on to say: "In addition, though we were successful in interviewing 69% of eligible ovarian cancer cases and 81% of eligible controls contacted, we cannot assess whether the cases and controls not interviewed could have selectively differentiated could have selectively differed in their reproductive characteristics or in their use of talc-containing body powders."	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Who invited you to that workshop? A. I don't recall who actually sent me the invitation. I was invited by whoever was coordinating it. MR. TISI: I'm sorry. That's my sticky note on it, which is not intended. THE WITNESS: Sorry. BY MR. HEGARTY: Q. Please look at P4, the Carr 1995 paper that you talked about with A. Yes. Q counsel for plaintiffs and you talked about with me. A. Yes. Q. You told counsel for plaintiffs that you felt that the summary as reported by Mr. Carr was not fair and balanced. Is that what you believe? A. I do believe that to be the case with respect to the epidemiologic evidence.

1	Page 514	,	Page 516
1	A. I have not.	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Q. Top left.
2	Q. Have you ever made that statement to	$\begin{vmatrix} 2 \\ 2 \end{vmatrix}$	A. Oh. "Because the risk"?
3	anyone outside of today's proceedings?	3	Q. First full paragraph.
4	A. I have not.	4	A. Yep. Uh-huh.
5	Q. And as we talked, you never did a	5	Q. "Because the risk of any one outcome
0	follow-up letter to the editor or other report		is dependent upon both the frequency and length of
/	where you commented on the summary that Carr	1	the exposure, Harlow et al. (1992) created a
1	1		continuous measure of total lifetime applications
9	MR. TISI: Objection.		for each case and control."
	BY MR. HEGARTY:	10	Do you remember talking to that with
11	Q. Is that correct?		plaintiffs' counsel?
12	MR. TISI: Objection.	12	A. Yes.
13	Misstates	13	Q. And then I believe you testified
14	THE WITNESS: I'd like		that what that meant was that reporting only on
15	MR. TISI: Misstates what		frequency or only on duration is a limitation when
16		1	assessing essentially dose response.
17	THE WITNESS: Am I allowed to	17	Is that a fair summary?
18	answer?	18	A. I believe it is.
19	MR. TISI: Yeah.	19	Q. Do you have the Woolen paper in
20		1	front of you? It's Exhibit 19.
21	I did in the same issue was my response	21	A. I do.
22	to that particular summary.	22	Q. Or your copy of the Woolen paper?
23	BY MR. HEGARTY:	23	A. Yeah. Yeah, I do.
24	Q. And that review, which is P5?	24	Woolen is right here. Got it.
	Page 515		Page 517
1	A. Correct.	1	Q. Thank you.
2	Q. So you can look at P5.	2	The Woolen paper reported only on
3	A. Yeah.	1	frequency of use and risk of ovarian cancer,
4	Q. I should say: In that review, you		correct?
1		5	A. Frequent use where they defined it
1	proceedings was not fair and balanced, correct?		as greater than 2 times per week.
7	A. I would not have done that in a	7	Q. So the only thing they reported with
8	peer-reviewed article.		regard to duration or frequency was as to more
9	Q. You made the statement in response		than 2 times a week, correct?
1	to plaintiffs' counsel	10	A. Yes, that's correct.
11	A. Are we still on this article or have	11	Q. They did not report a combined
1	you moved off?		cumulative exposure of dose of duration and
13	Q. Let me see. I'm looking at my	1	frequency, correct?
1	okay. Yeah. I'm sorry. Please stay with P5.	14	A. No.
15	Please turn over to 256, and this	15	MR. TISI: Objection.
	was a statement you talked about with counsel for	16	Misstates.
17	plaintiff.		BY MR. HEGARTY:
18	A. Uh-huh.	18	Q. That would then be, according to
19	Q. The statement: "Because the risk of		your testimony just a moment ago, a limitation o
20	any"		what conclusions you can draw from the Wooler
21	A. Well, just remind me where exactly		paper, correct?
		22	A FD FRIGIT OIL
1	it is, please.	22	MR. TISI: Objection.
1	it is, please. Q. It is top left.	22 23 24	MR. TISI: Objection. THE WITNESS: Actually, no, that's not a limitation.

	D 510		P 520
1	Yes, it's a limitation in that	1	Page 520 agree.
2	they did not look at a consecutive	2	Q. Okay.
3	association between, you know, between	3	A. It should be disclosed.
4	increase and risk, but they did something	4	Q. And with regard to the Woolen
5	that most studies had not been able to do	5	A. Wait. Except that I do want to just
6	and that's to really look at one at	6	make make sure that you that it's clarified
7	the papers that provided the best		that the first author, Sean Woolen, has no
8	information on more frequent use, and		relevant disclosures and Lazar, the second author,
9	that's why they included only those		has no relevant disclosures. And usually the
10	studies.		first author is the one that writes the paper and
11	That information available to		makes the ultimate decision on what is published.
12	them on greater than 2 times per week so	12	Q. Well, are you aware that the Woolen
13	that they could look at rather than	13	paper was started by Dr. Smith-Bindman as part of
14	just looking at any or none, they're now	14	an expert witness report that she prepared in the
15	able to look at greater than 2 times per	15	Pennsylvania state court case called Kliner versus
16	week versus none, and they see an	16	Johnson & Johnson?
17	association that's a bit stronger.	17	MR. TISI: Objection.
18	BY MR. HEGARTY:	18	THE WITNESS: I'm not aware
19	Q. Woolen does not talk about duration	19	of that.
20	of talc use, correct?	20	BY MR. HEGARTY:
21	A. Only to the extent that that's the	21	Q. Would that be something important
	way they chose to do this analysis by selecting		for you to know?
	those studies that had at least greater than 2	23	MR. TISI: Objection.
24	times per week of exposure.	24	Misstates.
	Page 519		Page 521
1	Q. Have you ever in any epidemiologic	1	THE WITNESS: Only if this
2	study of yours reported as to dose response only	2	information had not been peer-reviewed in
3	duration or only frequency?	3	the scientific literature.
4	A. I'm sure I've done them		BY MR. HEGARTY:
	individually, but also in combination when the	5	Q. Please turn over to Table 2 in the
6	data is available to me.	6	Woolen paper.
7	Q. Are you aware that with regard to	7	A. Yes. Table 2. Uh-huh.
	the Woolen paper that one of the authors,	8	Q. With regard to the data that this
	Dr. Smith-Bindman, is a plaintiffs' expert in this		Woolen paper combined, it included frequency data
	same litigation that you are?		that was not consistent across all the studies,
11	A. No.		correct?
12	Q. Did you review her disclosure in this paper over on page 2532?	12	A. That's correct. Well, yes, that's
13 14	A. I see that. Uh-huh.		Correct.
15	Q. Is that an appropriate disclosure if	14	Q. Then if you look down at the very bottom in Footnote 5, do you see with regard to
	you're an expert witness in talc litigation for		the data from the O'Brien study that Dr that
17	-		the Woolen paper only included data on women with
	MR. TISI: Objection.		intact fallopian tubes?
	WIK. 1151. Objection.	10	A. (Reviews document.)
18	· ·	10	
18 19	THE WITNESS: I don't I	19	·
18 19 20	THE WITNESS: I don't I think it's not unreasonable to declare	20	I do see that. Uh-huh. "To
18 19 20 21	THE WITNESS: I don't I think it's not unreasonable to declare that.	20 21	I do see that. Uh-huh. "To harmonize with other publications."
18 19 20 21 22	THE WITNESS: I don't I think it's not unreasonable to declare that. BY MR. HEGARTY:	20 21 22	I do see that. Uh-huh. "To harmonize with other publications." Q. Have you looked at whether the other
18 19 20 21	THE WITNESS: I don't I think it's not unreasonable to declare that. BY MR. HEGARTY: Q. It's not	20 21 22 23	I do see that. Uh-huh. "To harmonize with other publications."

		Page 522		Page 524
1	A.	I have not.	1	ratios were above 1.
2	Q.	It	2	Q. The only trend you found was what
3	A.	You mean across all these other	3	you reported at the end of that table; is that
4	studies?		4	
5	Q.	That's right.	5	A. Yes, that is that is the trend
6	A.	Yeah.	6	that is that is a trend that we reported when
7	Q.	So to truly harmonize across all 11	7	we felt we adequately refined the exposure aligned
8	studies, a	ll 11 studies would need to report their	8	with the biological plausibility that we were
9	data only	as to women with intact fallopian tubes,	9	testing.
10	correct?		10	Q. Please turn to the very last page
11		MR. TISI: Objection.	11	that you were asked about by counsel for
12		THE WITNESS: Well, I would	12	plaintiffs, particularly the very last sentence of
13	have	to look at these articles. So	13	this study.
14	certa	inly I know that Cramer and Harlow	14	A. Of this article?
15	woul	d have that ability to provide to	15	Q. Yes, sir.
16	to se	parate out that exposure.	16	A. Okay.
17		I would have to look back at	17	Q. The sentence about "Appropriate
18	the a	rticles to see if all of these	18	warnings should be provided."
19	artic	les specifically allowed for that	19	Do you see that sentence?
20	-	ration.	20	A. Yes.
21	BY MR.	HEGARTY:	21	"Appropriate warnings should be
22	Q.	If they don't all allow for that	22	1
	-	n, then there would not be harmonization	23	regular use of talc in the genital area."
24	across all	the studies, correct?	24	Q. As we looked at today and as you are
		Page 523		Page 525
1	A.	I I think that it would not be	1	aware, FDA disagrees with that statement, correct?
2	the same	e across all studies. That's right.	2	MR. TISI: Objection.
3	Q.	You can put that document aside.	3	Objection. Misstates the document.
4	A.	Okay.	4	Misstates the document completely.
5	Q.	And please look at P6.	5	BY MR. HEGARTY:
6		MR. TISI: How much time do we	6	Q. You can answer.
7		e? I mean, in light of the fact I did	7	A. Are you referring to the response to
8		longer, I'm giving you some leeway.	8	the to the committee? To the to the to
9		are we about to land the plane?	9	
10		MR. HEGARTY: That's my	10	Q. Citizens
11	inte		11	A. Citizens Petition?
12		MR. TISI: Okay.	12	Q. Yes.
13		THE WITNESS: Okay. So P6.	13	A. Is that what you're talking about?
14		at am I looking at?	14	Q. I am.
		. HEGARTY:	15	A. They they made a summary that
16	_	That is the 1999 study.		they did not feel there was evidence to put a
17		Got it. Yep.		warning on or to recommend a warning on the
18	_	Turning over to Table III on page	1	product. That is what they said.
	354.	X 7	19	Q. And you're aware from whatever
20		Yes.		sources of information that no talcum powder
21	Q.	You did not find in the middle part		product in the United States let me start
22		able a trend for years of use or total		again.
23		ions of use, correct?	23	MR. TISI: Please.
24	A.	That is correct, but all of the odds		BY MR. HEGARTY:

	Page 526		Page 528
1	Q. Are you aware that FDA has not	1	you'll give me, and then I will limit it
2	required an ovarian cancer warning on any talcum	2	to that. That's all I can do.
3		3	MR. TISI: As long as you tell
4		4	your colleagues that I did.
5	-	5	MS. PARFITT: Give back. Give
6	that they have.	6	back to us, Mark. Not everybody is
7	·	7	MR. HEGARTY: Sure. So what
8	Q. You can put that document aside.	8	do you want? Just tell me what you're
9	_	9	going to give me.
10	the plane should be landing.	10	MR. TISI: I'll give you five
11		11	minutes.
12	* *	12	MR. HEGARTY: Okay. Give me
13		13	five minutes. Okay.
14	MR. TISI: I understand that.	14	BY MR. HEGARTY:
15	MS. PARFITT: Come on.	15	Q. Looking at your conflict of interest
16			disclosure in your letter to the editor?
17		17	A. Yes.
18	•	18	Q. You did not make any reference in
19	-	19	that conflict of interest disclosure that the
20	ž		consultation you were doing was in connection with
21			litigation?
22		22	MR. TISI: Objection.
23		23	Objection. Assumes facts. We went we
24		24	did go through this like in a lot of
	Page 527		Page 529
1		1	detail earlier.
2	MR. TISI: I told I was going	2	BY MR. HEGARTY:
3	to do respond to your things. You	3	Q. I'm just simply asking you to look
4		4	at the words of the disclosure itself and tell me
5	you did. I'm trying to I'm trying to	5	whether you made you reported in that
6	be reasonable, but it is late.	6	disclosure that the consultation work you did wa
7	How much time have we used?	7	in connection with litigation.
8	THE COURT REPORTER: Let's	8	MR. TISI: But he indicated he
9	see. 13 and 14. 27 minutes.	9	didn't know he was going to be in
10	MR. HEGARTY: Just tell me how	10	litigation.
11	much you're going to give me, and then	11	THE WITNESS: No, no, no. It
12	I'll stick to it.	12	was not it was my conflict is that
13	MR. TISI: Well, I mean,	13	I was serving as a consultant on the
14		14	topic of talc and ovarian cancer risk.
15		15	It was I it was it may
16	· · · · · · · · · · · · · · · · · · ·	16	or may not have resulted in litigation.
16		17	I don't know. I was not an expert
17		18	witness.
	you.		BY MR. HEGARTY:
17	<u> </u>	19	BI I III II I
17 18	MR. TISI: How much time do	19 20	
17 18 19	MR. TISI: How much time do you have?	20	Q. Your consultation, though, was with
17 18 19 20	MR. TISI: How much time do you have? MR. HEGARTY: I will cut some	20	
17 18 19 20 21	MR. TISI: How much time do you have? MR. HEGARTY: I will cut some of this. I will just give me if	20 21	Q. Your consultation, though, was with attorneys representing plaintiffs?

	Page 530		Page 532
1	3	1	whether that information might be
2		2	available if I wanted to see it.
3	J 1	3	BY MR. HEGARTY:
4	Ç J = 5 p = 5 p	4	Q. But as far as your review of this,
5	A. Yeah. No, other than the reference	5	with regard to your review of this document, you
6	that I provided.	6	did not see any of the authorities that the EPA
7	This is this is Footnote B,	7	relied upon, correct?
8	correct?	8	A. I did not.
9	MR. TISI: Yes.	9	Q. You told me earlier in the day that
10	BY MR. HEGARTY:	10	one of the standards for which you applied in your
11	Q. Yes.	11	report as to whether you would comment on an
12	A. Yeah.		analysis in your paper was they had to show you
13	(Reviews document.)		the analysis that they did, correct?
14		14	A. That is correct but
15	it was an exhibit from a deposition.	15	MR. TISI: Objection.
16	_	16	THE WITNESS: But
	questions.	17	MR. TISI: This is for a
18	-	18	different reason. Now, go ahead.
	correct?	19	BY MR. HEGARTY:
20		20	Q. And then
21	Q. And when did you review this exhibit	21	MR. TISI: He testified on a
1	for the first time?	22	causal analysis. This is just biologic
23		23	plausibility. I mean, he testified to
	think I might have seen it Friday.	24	that.
2-	<u> </u>		
1	Q. Was that provided to you by	1	Page 533 BY MR. HEGARTY:
2		2	Q. Please answer. I think you were
3	-		starting to answer my question. Go ahead.
4		4	A. I was going to answer that the
5			response to the citizen committee was not
6	·		something that came out in the Federal Register
7	· ·		for public observation to make a position stance
1	correct?		on the part of the FDA.
9		9	It was my understanding in response
10	3		to a petition as to whether they would approve the
10			
1			labeling of of risk of talc on a cosmetic talc
1	cite to any published or otherwise literature that		product.
1	it reviewed with regard to its statements as it	13	This is in the Federal Register.
1	relates to asbestos and ovarian cancer or talc and		
	ovarian cancer, correct?		view, from the EPA and I it feels different to
16	3		me.
17		17	Q. So
18	•	18	A. This feels different to me.
19	* *	19	Q. So with regard to P9, this would be
20		20	an authority you would feel would meet your
21	• • • • • • • • • • • • • • • • • • • •	21	<i>E</i> ;
22			about it in your report; is that correct?
23	•	23	MS. PARFITT: Objection.
24	know whether if I went to the EPA site	24	THE WITNESS: This is this

	Page 534	
1	is what appears to me is a mandate that	1 agency or scientific authority had said
2	has been put forward by a federal agency.	2 that talc use causes ovarian cancer.
3	It is different from what I saw in that	3 MR. TISI: With asbestos.
4	FDA response to a citizens committee.	4 MR. HEGARTY: I did not ask
5	I would hope that a mandate	5 that question. The record will speak for
6	such as this would be backed by evidence,	6 itself.
7	and given that it says it's its final	7 MR. TISI: Right.
8	rule, I would assume that there were	8 MR. HEGARTY: And will not
9	there were iterative processes that it	9 reach agreement I'm sure today on our
10	went through in order to be able to come	objections or your response. So
11	up with these this summary.	11 MR. TISI: I understand.
12	BY MR. HEGARTY:	MR. HEGARTY: I guess that
13	Q. Going back to my question.	13 will be it.
14	Would it meet your standard that you	MR. TISI: Thank you.
15	applied for preparing your report	15
16	A. If there was no	16 (Signature not waived, the
17	Q to include an analysis in your	deposition concluded at 8:21 p.m.)
18	report?	18
19	A. Yeah. If there was no background	19 * * *
20	information that I could find to support this,	20
21	then it would not meet my standard.	21
22	MR. HEGARTY: Okay. All	22
23	right. Given the time that I've been	23
24	allowed, those are all the questions that	24
	Page 535	Page 537
1	Page 535 I have.	
1 2	I have.	
	-	1 ERRATA SHEET 2
2	I have. I'll reiterate my objection to	1 ERRATA SHEET 2 3 Page NoLine NoChange to:
2 3	I have. I'll reiterate my objection to the extent that Dr. Harlow was asked	1 ERRATA SHEET 2 3 Page NoLine NoChange to:
2 3 4	I have. I'll reiterate my objection to the extent that Dr. Harlow was asked about a question about materials that	1 ERRATA SHEET 2 3 Page NoLine NoChange to: 4
2 3 4 5	I have. I'll reiterate my objection to the extent that Dr. Harlow was asked about a question about materials that have not previously been disclosed that	1 ERRATA SHEET 2 3 Page NoLine NoChange to: 4 5 Page NoLine NoChange to: 6
2 3 4 5 6	I have. I'll reiterate my objection to the extent that Dr. Harlow was asked about a question about materials that have not previously been disclosed that he would include as a basis for his	1 ERRATA SHEET 2 3 Page NoLine NoChange to: 4 5 Page NoLine NoChange to: 6 7 Page NoLine NoChange to:
2 3 4 5 6 7	I have. I'll reiterate my objection to the extent that Dr. Harlow was asked about a question about materials that have not previously been disclosed that he would include as a basis for his opinions, that we reserve the right to	1 ERRATA SHEET 2 3 Page NoLine NoChange to: 4 5 Page NoLine NoChange to: 6 7 Page NoLine NoChange to: 8
2 3 4 5 6 7 8	I have. I'll reiterate my objection to the extent that Dr. Harlow was asked about a question about materials that have not previously been disclosed that he would include as a basis for his opinions, that we reserve the right to seek additional time to the extent	1 ERRATA SHEET 2 3 Page NoLine NoChange to: 4 5 Page NoLine NoChange to: 6 7 Page NoLine NoChange to:
2 3 4 5 6 7 8 9	I have. I'll reiterate my objection to the extent that Dr. Harlow was asked about a question about materials that have not previously been disclosed that he would include as a basis for his opinions, that we reserve the right to seek additional time to the extent warranted.	1 ERRATA SHEET 2 3 Page NoLine NoChange to: 4 5 Page NoLine NoChange to: 6 7 Page NoLine NoChange to: 8 9 Page NoLine NoChange to:
2 3 4 5 6 7 8 9	I have. I'll reiterate my objection to the extent that Dr. Harlow was asked about a question about materials that have not previously been disclosed that he would include as a basis for his opinions, that we reserve the right to seek additional time to the extent warranted. MR. TISI: We, obviously, object to that. I've given you more than	1 ERRATA SHEET 2 3 Page NoLine NoChange to: 4 5 Page NoLine NoChange to: 6 7 Page NoLine NoChange to: 8 9 Page NoLine NoChange to: 10 11 Page NoLine NoChange to:
2 3 4 5 6 7 8 9 10	I have. I'll reiterate my objection to the extent that Dr. Harlow was asked about a question about materials that have not previously been disclosed that he would include as a basis for his opinions, that we reserve the right to seek additional time to the extent warranted. MR. TISI: We, obviously,	1 ERRATA SHEET 2 3 Page NoLine NoChange to: 5 Page NoLine NoChange to: 6 7 Page NoLine NoChange to: 8 9 Page NoLine NoChange to: 10 11 Page NoLine NoChange to: 12
2 3 4 5 6 7 8 9 10 11 12	I have. I'll reiterate my objection to the extent that Dr. Harlow was asked about a question about materials that have not previously been disclosed that he would include as a basis for his opinions, that we reserve the right to seek additional time to the extent warranted. MR. TISI: We, obviously, object to that. I've given you more than enough time. All the documents that you	1 ERRATA SHEET 2 3 Page NoLine NoChange to: 4 5 Page NoLine NoChange to: 6 7 Page NoLine NoChange to: 8 9 Page NoLine NoChange to: 10 11 Page NoLine NoChange to: 12 13 Page NoLine NoChange to:
2 3 4 5 6 7 8 9 10 11 12 13	I have. I'll reiterate my objection to the extent that Dr. Harlow was asked about a question about materials that have not previously been disclosed that he would include as a basis for his opinions, that we reserve the right to seek additional time to the extent warranted. MR. TISI: We, obviously, object to that. I've given you more than enough time. All the documents that you have were in the Dropbox. We provided	1 ERRATA SHEET 2 3 Page NoLine NoChange to: 5 Page NoLine NoChange to: 6 7 Page NoLine NoChange to: 8 9 Page NoLine NoChange to: 10 11 Page NoLine NoChange to: 12
2 3 4 5 6 7 8 9 10 11 12 13 14	I have. I'll reiterate my objection to the extent that Dr. Harlow was asked about a question about materials that have not previously been disclosed that he would include as a basis for his opinions, that we reserve the right to seek additional time to the extent warranted. MR. TISI: We, obviously, object to that. I've given you more than enough time. All the documents that you have were in the Dropbox. We provided them several days in advance. These are	1 ERRATA SHEET 2 3 Page NoLine NoChange to: 5 Page NoLine NoChange to: 6 7 Page NoLine NoChange to: 8 9 Page NoLine NoChange to: 10 11 Page NoLine NoChange to: 12 13 Page NoLine NoChange to: 14 15 Page NoLine NoChange to:
2 3 4 5 6 7 8 9 10 11 12 13 14 15	I have. I'll reiterate my objection to the extent that Dr. Harlow was asked about a question about materials that have not previously been disclosed that he would include as a basis for his opinions, that we reserve the right to seek additional time to the extent warranted. MR. TISI: We, obviously, object to that. I've given you more than enough time. All the documents that you have were in the Dropbox. We provided them several days in advance. These are not new opinions.	1 ERRATA SHEET 2 3 Page NoLine NoChange to: 4 5 Page NoLine NoChange to: 6 7 Page NoLine NoChange to: 8 9 Page NoLine NoChange to: 10 11 Page NoLine NoChange to: 12 13 Page NoLine NoChange to: 14
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	I have. I'll reiterate my objection to the extent that Dr. Harlow was asked about a question about materials that have not previously been disclosed that he would include as a basis for his opinions, that we reserve the right to seek additional time to the extent warranted. MR. TISI: We, obviously, object to that. I've given you more than enough time. All the documents that you have were in the Dropbox. We provided them several days in advance. These are not new opinions. These are documents that came	1 ERRATA SHEET 2 3 Page NoLine NoChange to: 5 Page NoLine NoChange to: 6 7 Page NoLine NoChange to: 8 9 Page NoLine NoChange to: 10 11 Page NoLine NoChange to: 12 13 Page NoLine NoChange to: 14 15 Page NoLine NoChange to: 16 17 Page NoLine NoChange to:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	I have. I'll reiterate my objection to the extent that Dr. Harlow was asked about a question about materials that have not previously been disclosed that he would include as a basis for his opinions, that we reserve the right to seek additional time to the extent warranted. MR. TISI: We, obviously, object to that. I've given you more than enough time. All the documents that you have were in the Dropbox. We provided them several days in advance. These are not new opinions. These are documents that came out recently and we further support the	1 ERRATA SHEET 2 3 Page NoLine NoChange to: 4 5 Page NoLine NoChange to: 6 7 Page NoLine NoChange to: 8 9 Page NoLine NoChange to: 10 11 Page NoLine NoChange to: 12 13 Page NoLine NoChange to: 14 15 Page NoLine NoChange to: 16 17 Page NoLine NoChange to: 18
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	I have. I'll reiterate my objection to the extent that Dr. Harlow was asked about a question about materials that have not previously been disclosed that he would include as a basis for his opinions, that we reserve the right to seek additional time to the extent warranted. MR. TISI: We, obviously, object to that. I've given you more than enough time. All the documents that you have were in the Dropbox. We provided them several days in advance. These are not new opinions. These are documents that came out recently and we further support the opinions that you already have. And you	1 ERRATA SHEET 2 3 Page NoLine NoChange to: 5 Page NoLine NoChange to: 6 7 Page NoLine NoChange to: 8 9 Page NoLine NoChange to: 10 11 Page NoLine NoChange to: 12 13 Page NoLine NoChange to: 14 15 Page NoLine NoChange to: 16 17 Page NoLine NoChange to: 18 19 Page NoLine NoChange to:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	I'll reiterate my objection to the extent that Dr. Harlow was asked about a question about materials that have not previously been disclosed that he would include as a basis for his opinions, that we reserve the right to seek additional time to the extent warranted. MR. TISI: We, obviously, object to that. I've given you more than enough time. All the documents that you have were in the Dropbox. We provided them several days in advance. These are not new opinions. These are documents that came out recently and we further support the opinions that you already have. And you asked him whether or not any particular	1 ERRATA SHEET 2 3 Page NoLine NoChange to:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	I'll reiterate my objection to the extent that Dr. Harlow was asked about a question about materials that have not previously been disclosed that he would include as a basis for his opinions, that we reserve the right to seek additional time to the extent warranted. MR. TISI: We, obviously, object to that. I've given you more than enough time. All the documents that you have were in the Dropbox. We provided them several days in advance. These are not new opinions. These are documents that came out recently and we further support the opinions that you already have. And you asked him whether or not any particular agency had said that talc with asbestos	1 ERRATA SHEET 2 3 Page NoLine NoChange to: 4 5 Page NoLine NoChange to: 6 7 Page NoLine NoChange to: 8 9 Page NoLine NoChange to: 10 11 Page NoLine NoChange to: 12 13 Page NoLine NoChange to: 14 15 Page NoLine NoChange to: 16 17 Page NoLine NoChange to: 18 19 Page NoLine NoChange to: 20 21 Page NoLine NoChange to:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	I'll reiterate my objection to the extent that Dr. Harlow was asked about a question about materials that have not previously been disclosed that he would include as a basis for his opinions, that we reserve the right to seek additional time to the extent warranted. MR. TISI: We, obviously, object to that. I've given you more than enough time. All the documents that you have were in the Dropbox. We provided them several days in advance. These are not new opinions. These are documents that came out recently and we further support the opinions that you already have. And you asked him whether or not any particular agency had said that talc with asbestos causes cancer. You asked him the	1 ERRATA SHEET 2 3 Page NoLine NoChange to: 5 Page NoLine NoChange to: 6 7 Page NoLine NoChange to: 8 9 Page NoLine NoChange to: 10 11 Page NoLine NoChange to: 12 13 Page NoLine NoChange to: 14 15 Page NoLine NoChange to: 16 17 Page NoLine NoChange to: 18 19 Page NoLine NoChange to: 20 21 Page NoLine NoChange to: 21 Page NoLine NoChange to:

Page 538 DECLARATION UNDER PENALTY OF PERJURY 1 2 3 4 I declare under penalty of 5 perjury that I have read the entire transcript of 6 my Deposition taken in the captioned matter 7 or the same has been read to me, and 8 the same is true and accurate, save and 9 except for changes and/or corrections, if 10 any, as indicated by me on the DEPOSITION 11 ERRATA SHEET hereof, with the understanding 12 that I offer these changes as if still under 13 oath. 14 15 Signed on the _____ day of 16 _, 2024. 17 18 19 BERNARD L. HARLOW, PHD 20 21 22 23 24 Page 539 CERTIFICATE OF REPORTER 1 2 DISTRICT OF COLUMBIA) 3 I, Denise Dobner Vickery, a 4 Registered Court Reporter and Notary Public of 5 the District of Columbia, do hereby certify that 6 the witness was first duly sworn by me. 7 I do further certify that the 8 foregoing is a verbatim transcript of the testimony as taken stenographically by me at the 10 time, place and on the date herein set forth, to 11 the best of my ability. 12 I do further certify that I am 13 neither a relative nor employee nor counsel of 14 any of the parties to this action, and that I am 15 neither a relative nor employee of such counsel, 16 and that I am not financially interested in the 17 outcome of this action. 18 19 Denise D. Vickery 20 DENISE DOBNER VICKERY, CRR,RMR 21 Notary Public in and for the 22 District of Columbia 23 24 My Commission expires: March 14, 2028

[& - 1.8]

Page 1

	I	I	
&	15:21,23 21:4	290:14 367:19	1.35 297:16
& 1:5 2:14 3:5	21:10 77:9	1.11 168:1	1.36 327:16
3:14 4:14,14,16	83:23 99:5	1.12 327:15	1.37 181:9
9:1 43:9 61:3	101:2,2 104:8	1.13 302:15	290:15
62:6 190:6	177:3,22	371:7 373:2	1.37. 401:11
198:12 202:22	186:14 187:22	374:24	1.4 102:24
238:16,19,21	187:24 188:3,4	1.14 347:24	183:8 299:3
240:1,18 241:6	284:15 285:16	1.15 184:11	327:21 495:23
309:10 379:14	286:2,3,9 303:8	372:22 375:2	1.4. 103:16
382:11 436:6	303:11,14,16	1.16 304:5	368:2
466:17 468:10	314:2,4 327:4	347:22	1.40 295:7,22
481:23 485:17	330:5 335:19	1.17 495:24	300:6
520:16	348:3 364:16	1.19 164:4	1.44 167:24
	401:8 421:7,11	165:6 168:7	1.45 312:12
0	426:1,4,10,11	1.2 102:24	1.47 294:9
0.05. 313:11	444:4 457:18	1.20 401:11	1.5 233:15,20
0.15. 371:8	457:20 509:16	1.22 347:24	404:6
0.8 368:1	524:1	1.23 347:24	1.5. 184:12
0.84 302:16	1.0 126:10	1.26 373:4	330:7
0.86 181:9	148:21 178:11	375:1	1.51 302:16
290:15 375:2	233:21 259:16	1.27 335:2	1.52. 327:22
0.88 304:6	260:6,9 303:17	1.28 399:16	1.53. 304:6
0.9 184:12	303:18 314:5	401:9	1.54 457:13
302:23 368:1	316:8 328:3	1.28. 302:24	1.63 164:4
0.92 327:15	347:21 348:16	1.29 327:22	168:8
0.97 335:5	364:12 372:20	1.3 102:24	1.66. 335:5
0.99 312:11	372:20 404:6	103:15 129:7	1.68 495:24
372:24	451:4	300:21 316:13	1.69 337:19
0.99. 371:10	1.0. 259:12	330:7 368:2,6	1.7 164:6
05 312:4,15	260:7	402:10 404:6	1.70 168:11
363:17	1.01 373:3	1.31 101:11	1.72 457:13
1	374:24	104:1,13	1.8 148:21
1 5:10,11 6:3,17	1.04 295:18	105:11	177:23 178:11
7:3 8:16 10:17	1.06 297:15	1.31. 101:5	404:7 451:4
10:20 11:10	1.09 181:8	1.32 348:1	475:7
10.20 11.10	281:21 283:9		
	1	I .	1

Page 2

_			· ·
1.8. 126:10	505:23 506:4,6	1600 4:7	430:11 437:4
457:13	12:30 179:17	161 6:7	1990 177:7
1.86 168:1	12:31 179:18	166 6:11	454:13
10 6:7 25:9,11	13 6:18 7:6	1665 167:19	1990s 97:5
25:21 26:17,23	122:2,4 180:2,4	17 7:6,7 269:18	446:19 464:6
48:15 50:24	283:10 398:24	269:22 270:3,6	479:10 494:10
90:8,16,18,19	527:9	277:19,24	1992 10:14 90:6
161:18,20	130 4:7	278:10 282:11	90:16 120:13
166:20 237:2	14 6:21 122:2,2	171 6:15	121:1 183:13
296:9,21	122:5,6 162:11	18 7:11 188:8	259:22 322:11
297:14,14	164:14,20,20	188:10 275:21	331:8,23 341:2
378:23 389:9	194:20,23	276:3,9,11	389:10,16
389:12 390:7	195:20 399:2	277:17	390:12 428:22
390:16,20	527:9 539:24	180 6:18	432:16,17
454:23 462:22	1412 162:12,13	1825 2:15 3:16	434:19 437:5
492:8 498:18	163:1,2	18th 4:7	447:22 453:6
498:18	1414 164:12	19 7:13 135:8	510:20 516:7
10,000 155:19	15 5:10,17 7:1	135:21 153:23	1993 252:18,22
447:3 450:15	7:23 74:10,14	276:8 285:2,4	253:5,11
457:3,7,8	245:18,21	348:23 349:1	1994 5:24 6:3
498:15	246:6 247:21	350:12 352:20	6:17 7:6 10:17
10:01 44:6	253:19 254:1,5	357:6 360:24	10:20 36:4,10
10:19 62:21	254:15,20	362:9 516:20	91:4 129:15
10:28 62:22	371:14 375:3	19103 4:8	148:20 173:18
11 6:11 166:22	454:23 526:23	194 6:21	174:1 253:4,10
166:24 168:12	15-16 63:15	1960s 246:17	310:18 357:20
287:7 522:7,8	15207 539:20	1970s 468:11	424:1 428:22
11/8/2023 50:20	16 7:3 249:4,6	1979 444:19,19	437:6 512:22
11:31 133:21	249:12,15	1980 253:20	1995 94:20
11:32 133:22	250:18 252:1	254:1 337:20	171:3 177:5,7
11:37 139:18	252:12 268:12	1980s 468:11	178:9 448:15
11:48 139:19	268:24 348:18	1982 432:13	451:10 470:6
12 5:3 6:15 8:3	348:19 417:11	1989 10:11	513:10
162:7 171:3,5,8	16-2738 1:6	328:17 332:5	1998 5:19
504:19,22	160 324:22	424:16,21	342:24 343:1
505:16,20,22	504:3	428:21 429:22	343:13
	Golkow Te	1 1 .	

[1999 - 2024] Page 3

1999 10:23	20 5:11 7:18	2011 8:3 332:15	2020 8:17,23
82:22 83:10,19	56:2,5 81:7,22	333:21 336:8	9:3,9 66:10,19
85:13 103:2,7	153:6,19,21,22	336:12	66:20 194:5
115:22 121:2	154:20,22	2012 115:22	237:18 287:20
123:3 134:17	296:16,19,24	221:3 489:3	304:9 368:13
134:18 145:10	297:3 321:1,2	2013 8:7 168:14	368:17 373:23
259:23 331:9	321:11 412:4,7	341:15	380:21 388:18
332:3 341:2	412:10 413:7	2014 7:3 163:11	397:22 398:2
428:23 453:20	414:1 423:7,20	163:13 164:3,5	398:14
458:8 460:14	498:18,19	165:4,24 166:2	2021 6:14 8:16
460:20 523:16	20,000 60:6	166:3 168:4,10	10:6 166:22
1:04 217:16	200 60:10	169:5,6 252:3	167:15 420:17
1:40 218:2	2000 6:6,20,24	259:19 260:18	420:21
2	11:3 100:2	440:6 490:7	2022 7:2,17
2 5:10,11 6:20	104:2,8,22	2015 59:23	2023 5:17 11:8
7:17 15:22	107:7,21 108:5	65:15 66:16	22:12,16 26:16
19:24 20:3,5,7	108:12,18,19	478:17	26:21 29:21
20:10 21:10	109:5 116:4	2015-2016	43:19 44:15
44:13,19,23	126:15 128:12	65:18	45:16 48:15
45:15 47:1 49:8	128:16 129:15	2016 6:10 59:23	49:17 50:24
49:14 60:12	179:22 180:2	65:15 120:22	56:22 73:5,8
82:13 94:13	295:7 299:4	121:2,6 161:17	74:10,14,16
100:12 103:18	300:7 382:21	236:9 322:7	82:7,11 89:17
164:12 246:12	390:20 472:10	390:11	213:17 216:13
258:8 352:11	20006 2:17 3:17	2017 60:2 66:16	269:19 270:7
	2007 7:23	380:20	459:6 472:13
498:8,9 499:6,7 501:13 506:10	2008 7:6 253:20	2019 8:13 9:13	477:14 479:3
508:20 517:6,9	254:1 326:13	66:17 193:24	2024 1:15 2:8
· ·	329:5,6,20	349:8,19	5:12 7:10,12
518:12,15,23	331:3	355:19 363:11	11:14 26:19
521:5,7	2009 431:8	363:13 398:7	42:10,18 44:16
2.0 316:13 2.8 509:19	2010 7:20 88:16	398:14 399:16	44:16 49:13
2.8. 450:16	89:11 296:9,13	478:18	52:9,12 54:17
2.8. 430:16 2.91 164:6	296:22 297:4	202.759.7648	55:21 56:1
165:3,8 168:11	298:20 400:6	3:18	246:15 270:11
105.5,6 106.11			270:14 389:13
	1	I.	

[**2024 - 4.4**] Page 4

200.9 21	262.1 510.22	205 7.12	216 2.7
390:8,21	363:1 510:22	285 7:13 29 9:4 55:20	316 3:7 32502-5996 3:8
482:24 538:16	250 449:23		
2028 539:24	251 181:24	56:1 398:2,4	326 7:21
2096 379:21	184:15	399:5,13	332 8:1
385:7,15	2527 285:20,21	296 7:18	341 8:4
2097 385:7	2529 286:18	2:13 247:15	349 8:8
21 7:21 167:15	2532 519:13	2:14 247:16	353 458:14
278:11,17	2555 4:18	2:58 293:2	354 85:17
326:14,16	256 171:14	3	523:19
214 94:16 95:8	445:20 515:15	3 5:11,12 21:9	355 86:18
215 96:5 438:6	2569 286:17	21:10 42:13,15	124:12,22
438:18,19	257 172:6	42:18 52:9	125:3,4
215.735.0773	448:19,20,22	76:21 77:1	359 330:15
4:9	449:8	108:16 246:15	361 8:14
218 5:4	258 172:6	252:13 259:17	368 8:17
21973 484:3	449:23	345:14 352:12	373 8:20
21975 486:5	26 8:17 9:3	400:21 450:11	379 9:1
22 8:1 278:12	56:22 64:17	450:12 497:21	398 9:4,10
278:18 332:16	368:17,19	510:18	3:10 293:3
332:18	496:18	3,000 456:24	3:19 301:20
23 8:4 9:13	27 8:20 270:9	457:7,7	3:22 301:21
49:17 100:14	270:23 273:9	3.0 103:14	4
341:20,22	273:10 278:11	3.0. 316:13	
472:13 497:13	278:12 373:15	3.0. 316:13 3.2. 499:6	4 5:13 60:20,22
497:19	373:17,19		66:2 76:9
24 8:8 77:9	527:9	3.4. 404:15	112:19 126:17
349:24 350:2	270 7:7	3.5 509:17	164:12 230:15
351:7 399:7	272 92:24 93:7	30 9:10 191:22	252:13,14
401:10,24	276 7:11	337:18 356:6	253:2 257:20
402:4	28 6:6 7:12 9:1	356:19 374:6	258:8 260:12
245 7:1	10:11 11:3,14	398:7,10 399:3	297:8 350:11
249 7:3	54:17 126:15	399:12,17	350:22 352:20
25 8:14 82:22	379:5,7,18	423:7,20	369:8 437:14
270:9,23 273:9	470:18 471:8	452:17	4.0 103:15
273:10,11	482:23 529:24	31 5:24 104:14	4.4 405:9
361:17,22	102.23 327.2 1	107:8	
301.11,22			

[4.91 - 92] Page 5

4.91 168:11	5	60 5:13	482:17
4.97. 164:7	5 5:15 9:9 76:6	600 3:7 17:15	8,525 8:6
40 11:9 25:12	76:8,9,12,16	17:23 18:21	800 362:17
26:1 201:18	77:6 129:20	49:6,12 80:13	81 511:17
418:12 423:20	188:11 212:23	62 63:15	816.474.6550
452:17	237:2 260:22	64108 4:19	4:20
400 49:3,11	260:23 286:20	6474272 1:24	819 343:17,22
60:10,12	318:16 347:20	69 511:16	343:24 344:3,4
40s 412:6	443:18 454:1	6:01 417:6	820 342:6
412 162:4,8,9	521:15	6:02 417:7	343:16
162:11,24	5,000 29:11	6:03 417:21	83 5:18
418 5:5	5.0. 103:15	6:04 417:22	84 297:16
42 5:12	50 24:11 25:10	7	850.435.7999
421 10:3	26:1 282:4	7 5:20 7:2 8:23	3:9
429 10:7	297:9 302:19		86 372:22
432 10:12	325:9,11	92:15,18,22	87 164:4 168:8
437 10:15	418:12,16	103:21 104:11	8:15 492:13
44 167:23	500 5:6 440:22	195:8,11,13,15	8:21 536:17
443 10:18	50 3:6 440:22 52 348:20	482:15	8th 48:2
45 183:13	54 371:3	70 226:11	9
4500 48:21 49:9	56 369:4	700 2:16 3:16	
454 10:21	598 351:7,11	739 336:19	9 1:15 2:8 6:4
467 11:1	352:5	741 337:14	98:10,14,24
477 11:4		751 11:10	100:7 104:20
482 11:9	5:19 391:6	76 5:15	116:4 126:15
4:07 342:11	5:33 391:7	7:02 492:11	194:14 195:7,9
4:21 342:12	6	493:3	195:11,12
4:25 346:9	6 5:18 7:10 76:4	7:34 493:4	482:10,11,18
4:26 346:10	83:14,17,19	7:41 499:15	9,000 48:20,22
4:30 349:14	116:8,21	7:47 499:16	49:1,9,10
4:31 349:15	131:21 139:23	8	9,859 8:6
4:37 355:9	155:3 260:21	8 6:1 52:11 94:3	90 141:17,24
4:44 355:10	260:23 270:11	94:6,9 106:10	142:10
4s 437:20	270:14 323:5	106:14,15	90s 95:6
	454:3,5	117:11,22	92 5:20 122:20
	·	326:5,8 437:23	

[94 - actually] Page 6

04 6.1	120.6.144.2	3 2 11	4
94 6:1	138:6 144:3	academically	acetaminophen
95 167:24 168:7	147:15 148:6	439:21	28:4,23 29:1,23
168:11 181:9	179:1 193:13	acceptable	31:16,24 32:24
188:2 260:7	208:7 214:23	224:17	33:9,23 34:19
280:16 312:9	254:17,18	access 167:10	acknowledge
313:6 374:24	255:2 257:5	accomplished	258:10,20
375:1 388:3	259:1 313:5	38:2	acog 395:16
96 400:16	370:7,9 391:1	account 126:3	396:23
98 6:4 405:8	392:17 402:3	126:12 169:3	acronym
409:15	426:17 509:7	183:10 185:18	466:16
99 122:20,22	518:5,15	186:20 231:22	act 11:13
375:1 399:22	534:10	233:3 314:19	423:13 483:15
408:3	above 85:22	315:9 335:12	action 539:14
9:27 1:16 2:9	101:1,2 106:13	345:13,13	539:17
9:34 21:13	117:23 287:8	494:18	activities 24:1
9:36 21:14	330:5 362:20	accounting	24:22
9:57 44:5	400:16 401:8	315:12 319:19	actual 139:11
9th 48:2	401:19,20	442:8	228:11 286:14
a	408:19 487:8	accounts 132:4	actually 52:21
	408:19 487:8 524:1	accounts 132:4 accumulates	actually 52:21 54:16 77:17
a.m. 1:16 2:9			_
a.m. 1:16 2:9 21:13,14 44:5,6	524:1	accumulates	54:16 77:17
a.m. 1:16 2:9 21:13,14 44:5,6 62:21,22	524:1 absence 330:22	accumulates 473:2	54:16 77:17 92:12 104:1,4
a.m. 1:16 2:9 21:13,14 44:5,6 62:21,22 133:21,22	524:1 absence 330:22 330:24 331:14	accumulates 473:2 accurate	54:16 77:17 92:12 104:1,4 105:20 109:8
a.m. 1:16 2:9 21:13,14 44:5,6 62:21,22 133:21,22 139:18,19	524:1 absence 330:22 330:24 331:14 339:12,14	accumulates 473:2 accurate 107:22 155:1	54:16 77:17 92:12 104:1,4 105:20 109:8 116:11 117:5
a.m. 1:16 2:9 21:13,14 44:5,6 62:21,22 133:21,22 139:18,19 aaces 6:10	524:1 absence 330:22 330:24 331:14 339:12,14 340:22	accumulates 473:2 accurate 107:22 155:1 260:18 268:9	54:16 77:17 92:12 104:1,4 105:20 109:8 116:11 117:5 119:19,20,20
a.m. 1:16 2:9 21:13,14 44:5,6 62:21,22 133:21,22 139:18,19 aaces 6:10 167:22	524:1 absence 330:22 330:24 331:14 339:12,14 340:22 absolutely 34:1	accumulates 473:2 accurate 107:22 155:1 260:18 268:9 280:20 289:6	54:16 77:17 92:12 104:1,4 105:20 109:8 116:11 117:5 119:19,20,20 121:24 122:22
a.m. 1:16 2:9 21:13,14 44:5,6 62:21,22 133:21,22 139:18,19 aaces 6:10 167:22 abandoned	524:1 absence 330:22 330:24 331:14 339:12,14 340:22 absolutely 34:1 108:6 124:8	accumulates 473:2 accurate 107:22 155:1 260:18 268:9 280:20 289:6 290:23 291:14	54:16 77:17 92:12 104:1,4 105:20 109:8 116:11 117:5 119:19,20,20 121:24 122:22 128:19 135:5
a.m. 1:16 2:9 21:13,14 44:5,6 62:21,22 133:21,22 139:18,19 aaces 6:10 167:22 abandoned 363:23	524:1 absence 330:22 330:24 331:14 339:12,14 340:22 absolutely 34:1 108:6 124:8 149:8 388:7	accumulates 473:2 accurate 107:22 155:1 260:18 268:9 280:20 289:6 290:23 291:14 337:8 338:20	54:16 77:17 92:12 104:1,4 105:20 109:8 116:11 117:5 119:19,20,20 121:24 122:22 128:19 135:5 154:19 178:21
a.m. 1:16 2:9 21:13,14 44:5,6 62:21,22 133:21,22 139:18,19 aaces 6:10 167:22 abandoned 363:23 ability 205:22	524:1 absence 330:22 330:24 331:14 339:12,14 340:22 absolutely 34:1 108:6 124:8 149:8 388:7 abstain 453:16	accumulates 473:2 accurate 107:22 155:1 260:18 268:9 280:20 289:6 290:23 291:14 337:8 338:20 340:14 346:21	54:16 77:17 92:12 104:1,4 105:20 109:8 116:11 117:5 119:19,20,20 121:24 122:22 128:19 135:5 154:19 178:21 184:8 189:3
a.m. 1:16 2:9 21:13,14 44:5,6 62:21,22 133:21,22 139:18,19 aaces 6:10 167:22 abandoned 363:23 ability 205:22 206:19 311:15	524:1 absence 330:22 330:24 331:14 339:12,14 340:22 absolutely 34:1 108:6 124:8 149:8 388:7 abstain 453:16 abstract 83:23	accumulates 473:2 accurate 107:22 155:1 260:18 268:9 280:20 289:6 290:23 291:14 337:8 338:20 340:14 346:21 352:22 413:5	54:16 77:17 92:12 104:1,4 105:20 109:8 116:11 117:5 119:19,20,20 121:24 122:22 128:19 135:5 154:19 178:21 184:8 189:3 199:10 206:1
a.m. 1:16 2:9 21:13,14 44:5,6 62:21,22 133:21,22 139:18,19 aaces 6:10 167:22 abandoned 363:23 ability 205:22 206:19 311:15 522:15 539:11	524:1 absence 330:22 330:24 331:14 339:12,14 340:22 absolutely 34:1 108:6 124:8 149:8 388:7 abstain 453:16 abstract 83:23 84:2,3,18,20,20	accumulates 473:2 accurate 107:22 155:1 260:18 268:9 280:20 289:6 290:23 291:14 337:8 338:20 340:14 346:21 352:22 413:5 434:12 512:13	54:16 77:17 92:12 104:1,4 105:20 109:8 116:11 117:5 119:19,20,20 121:24 122:22 128:19 135:5 154:19 178:21 184:8 189:3 199:10 206:1 227:15 230:1
a.m. 1:16 2:9 21:13,14 44:5,6 62:21,22 133:21,22 139:18,19 aaces 6:10 167:22 abandoned 363:23 ability 205:22 206:19 311:15 522:15 539:11 able 38:3 45:8	524:1 absence 330:22 330:24 331:14 339:12,14 340:22 absolutely 34:1 108:6 124:8 149:8 388:7 abstain 453:16 abstract 83:23 84:2,3,18,20,20 84:23 177:2,11	accumulates 473:2 accurate 107:22 155:1 260:18 268:9 280:20 289:6 290:23 291:14 337:8 338:20 340:14 346:21 352:22 413:5 434:12 512:13 538:8	54:16 77:17 92:12 104:1,4 105:20 109:8 116:11 117:5 119:19,20,20 121:24 122:22 128:19 135:5 154:19 178:21 184:8 189:3 199:10 206:1 227:15 230:1 250:1 252:13
a.m. 1:16 2:9 21:13,14 44:5,6 62:21,22 133:21,22 139:18,19 aaces 6:10 167:22 abandoned 363:23 ability 205:22 206:19 311:15 522:15 539:11 able 38:3 45:8 47:7 87:20,21	524:1 absence 330:22 330:24 331:14 339:12,14 340:22 absolutely 34:1 108:6 124:8 149:8 388:7 abstain 453:16 abstract 83:23 84:2,3,18,20,20 84:23 177:2,11 177:12,14	accumulates 473:2 accurate 107:22 155:1 260:18 268:9 280:20 289:6 290:23 291:14 337:8 338:20 340:14 346:21 352:22 413:5 434:12 512:13 538:8 accurately	54:16 77:17 92:12 104:1,4 105:20 109:8 116:11 117:5 119:19,20,20 121:24 122:22 128:19 135:5 154:19 178:21 184:8 189:3 199:10 206:1 227:15 230:1 250:1 252:13 256:19 276:17
a.m. 1:16 2:9 21:13,14 44:5,6 62:21,22 133:21,22 139:18,19 aaces 6:10 167:22 abandoned 363:23 ability 205:22 206:19 311:15 522:15 539:11 able 38:3 45:8 47:7 87:20,21 87:24 128:24	524:1 absence 330:22 330:24 331:14 339:12,14 340:22 absolutely 34:1 108:6 124:8 149:8 388:7 abstain 453:16 abstract 83:23 84:2,3,18,20,20 84:23 177:2,11 177:12,14 181:2 186:2 334:5 335:7,19	accumulates 473:2 accurate 107:22 155:1 260:18 268:9 280:20 289:6 290:23 291:14 337:8 338:20 340:14 346:21 352:22 413:5 434:12 512:13 538:8 accurately 42:21 87:20	54:16 77:17 92:12 104:1,4 105:20 109:8 116:11 117:5 119:19,20,20 121:24 122:22 128:19 135:5 154:19 178:21 184:8 189:3 199:10 206:1 227:15 230:1 250:1 252:13 256:19 276:17 284:19 299:7
a.m. 1:16 2:9 21:13,14 44:5,6 62:21,22 133:21,22 139:18,19 aaces 6:10 167:22 abandoned 363:23 ability 205:22 206:19 311:15 522:15 539:11 able 38:3 45:8 47:7 87:20,21	524:1 absence 330:22 330:24 331:14 339:12,14 340:22 absolutely 34:1 108:6 124:8 149:8 388:7 abstain 453:16 abstract 83:23 84:2,3,18,20,20 84:23 177:2,11 177:12,14 181:2 186:2	accumulates 473:2 accurate 107:22 155:1 260:18 268:9 280:20 289:6 290:23 291:14 337:8 338:20 340:14 346:21 352:22 413:5 434:12 512:13 538:8 accurately 42:21 87:20 266:14 291:22	54:16 77:17 92:12 104:1,4 105:20 109:8 116:11 117:5 119:19,20,20 121:24 122:22 128:19 135:5 154:19 178:21 184:8 189:3 199:10 206:1 227:15 230:1 250:1 252:13 256:19 276:17 284:19 299:7 302:22 322:18

[actually - agree]

Page 7

354:5 370:9	addressed 87:6	advance 42:8	460:18 480:3,6
399:3 433:16	97:21 125:13	235:16 535:14	480:15 483:13
435:6 443:2,14	addressing	advanced 365:8	483:14 488:21
466:3 474:18	201:20 236:5	adverse 230:14	489:12 534:2
490:10 491:9	378:8 387:17	424:4	535:20 536:1
491:10,10	adds 207:16	advice 18:9	agent 315:23
494:22 497:2	adelman 18:18	advisable	502:8
499:9 502:17	adenocarcino	396:17	aggregate
504:22 507:4	140:17 141:11	advise 23:9	130:8
509:7 513:2	141:22 142:8	32:12 251:4	ago 50:17 82:22
517:23	156:20 157:23	advised 23:4	91:4 122:23
acute 254:8	295:18 301:3,3	advisor 334:2	192:15 249:1
add 120:1,17,21	adequate	aesthetic	249:20 343:1
248:2 424:13	442:12 443:8	463:13	356:19 370:13
493:22	adequately	affect 86:6	389:8 390:11
added 49:12	185:24 524:7	affected 502:7	423:7,20
addition 126:5	adhd 29:2	affecting 109:1	430:16 452:17
253:18 338:12	adjective 336:3	423:15	517:19
388:6 511:15	adjunct 25:17	affiliated 25:15	agree 72:4,14
additional	adjust 131:1	affirmative	101:10 105:10
50:21 51:1	447:21 448:7	5:14 61:2	106:5 107:22
55:14 177:23	adjusted 298:3	affirmatively	127:19 128:7
213:6 214:5,6	304:4 371:8	215:17	128:11 129:9
251:3 253:21	448:1 457:2	african 6:9,13	130:11 131:17
254:7,10	adjusting	afternoon 5:4	132:10 134:15
288:24 289:1	448:11	218:1	135:16 149:5
297:15 298:24	adjustment	age 159:10	155:22 160:14
298:24 424:4	335:3 447:5	183:13 282:3	199:4 203:20
441:20 442:1	486:21	302:19 325:9	218:11 220:6
501:24 535:8	administration	325:10 337:18	224:12 258:19
additionally	436:4	412:3,4,5	259:6,13,19,21
484:9,23,24	adolescence	agencies 489:11	260:17 265:13
485:9	11:5 477:24	agency 35:17	265:17 266:2
address 202:23	adulthood 11:6	35:18,20 36:24	272:24 273:2
363:13 483:15	478:1	211:21 265:14	280:3,6 292:14
		411:14,16	299:24 312:3,6

[agree - analyze]

Page 8

			- 1.8
314:9 329:23	526:22 532:18	363:14 378:16	170:6 175:14
339:18 340:16	533:3	amount 18:4	176:7,23
354:20 355:17	air 224:10	21:20 151:12	183:12 203:21
356:23 365:2	al 5:19 6:6,10	152:4,7 161:2	218:15,24
365:10 366:18	6:14,19,24 7:17	185:18 189:17	219:6 220:23
386:23 387:7	7:20,22 8:3,7	225:24 226:24	222:17 224:18
387:18,22	8:12,19 9:8,13	412:12 417:10	224:23 230:19
400:13 401:3	10:6,13,23 11:3	527:4,15	230:24 232:23
401:14 408:11	11:7 43:10	amounts 55:12	233:10 237:19
422:17 476:18	282:16,22	318:24	237:19 240:7
481:17 502:10	516:7	ample 108:9	243:3,3,9,12
520:1 527:17	al.'s 98:10	121:21	280:5,22 281:5
agreed 63:6	aligned 71:23	amrhein 362:7	283:7,9,16,18
73:8 96:16	524:7	362:15	284:8 286:16
125:19 128:15	allow 14:4,4	analyses 102:10	287:14 288:12
354:17 355:16	233:5,6 256:22	115:1 132:1	288:17 293:20
agreeing 71:12	405:2 522:22	236:11 237:24	294:9,12
agreement	allowed 514:17	280:1 289:19	297:20,23
359:22 536:9	522:19 534:24	322:23 323:2	300:16 326:2
agrees 256:24	allows 402:1	324:24 336:9	327:14,24
388:20,22,23	434:11	366:15 367:21	331:17,23
389:1	alluding 503:4	387:24 402:8	341:18 344:7
ah 74:19 270:12	altered 506:22	447:22 476:20	363:18 369:8
ahead 41:19	509:12	analysis 7:16	375:15 387:15
64:21 70:19	alternative	8:5 9:5 35:10	387:16 397:23
76:2 87:16 92:6	318:22 332:2	99:4,23 101:19	401:24 402:17
102:9 107:14	332:11 488:3	101:24 104:20	402:17 403:22
110:24 138:19	ambient 356:22	104:22 112:5,8	404:1,15
143:1 180:15	ambiguous	112:11 113:7	407:11 415:18
189:6 215:10	394:16	115:13 116:10	425:6 427:13
231:10 266:9	amend 213:10	116:16 132:1	503:9,12 510:6
276:4 279:14	amended	140:11 143:22	518:22 532:12
293:13 313:3	213:12	144:7,12,24	532:13,22
345:8 370:12	american 6:9	145:24 161:10	534:17
396:12 412:24	361:5 362:11	163:6 165:6,18	analyze 111:23
438:21 514:16	362:19 363:12	166:5 169:4	115:5 310:5,6

[analyze - approach]

Page 9

402:4 509:5	241:4 247:22	apart 67:19	494:18 516:8
analyzed	250:13 263:3	75:14 133:2	523:23
100:14 163:13	272:22 276:1	apologize	applied 34:18
305:15 503:6	317:7 345:7,9	166:19 239:20	81:10 89:15
509:9	354:12 358:13	299:22 343:21	90:2 149:24
analyzing 39:7	358:21 359:6	apparently	152:23 154:22
116:12 229:12	372:16 376:23	409:11	220:20 223:7
305:11 366:10	377:4,8,14	appear 20:18	230:10 311:15
anapol 4:4	384:20 394:18	439:14	320:3 354:5,6,7
anapolweiss	394:19 435:11	appearances	363:22 366:8
4:10	514:18 525:6	3:1 4:1	423:2 456:15
anatomical	533:2,3,4	appears 22:21	459:4 486:22
219:13	answered	116:13 153:10	532:10 534:15
ancestry 6:14	141:14 151:23	288:23 336:4	applies 151:9
animal 33:8,15	179:9 184:7	336:14 353:16	apply 81:14,17
219:6,10,20,22	271:19 272:19	461:8 534:1	104:14 140:4,9
220:7 252:17	317:6,15 372:8	applicable	145:8,20
252:22 308:2	372:15 384:3	129:12	230:10 231:23
427:19 478:7	answering	application	274:10 317:4
anna 208:21	90:12 358:15	89:20 150:3	373:10 405:14
answer 14:5,7	509:2	256:6 365:9,11	416:4 431:18
15:6 27:12 30:7	antecedent	366:13 415:6	applying
30:17 32:14,16	113:23	453:17 455:11	231:19 347:11
45:22 46:4 59:1	anticipate	455:22 506:20	405:9,11
63:18 64:8,23	13:24	506:21 509:11	406:10 505:24
72:11 97:14	anticipated	applications	appointment
106:4 107:16	99:14 106:21	115:21 125:24	25:1,17
132:19,21,22	antidepressants	154:20 155:14	appreciable
133:2,5 136:18	147:9	155:19 280:9	406:24 506:22
147:17,20	anxious 174:7,8	321:24 334:16	509:12
151:24 153:19	anybody	337:4 344:8	appreciate
160:21 184:14	234:15 428:17	345:14 346:23	356:1
190:19 203:6	452:3 464:1	348:6 433:4,17	approach 78:9
204:4,5 210:13	anytime 383:16	447:3 450:16	112:16 141:6
210:14 214:8	427:13	456:1,3,24,24	148:1 229:15
216:22 217:8		457:4 494:8,13	230:17 267:7
	1	1	

[approach - asbestos]

Page 10

L. P			
281:12 318:23	140:16 141:10	195:21,23	articles 46:11
320:17 330:4	141:21 142:8	197:19 198:14	47:23 82:18
348:13 458:9	146:5,14 148:2	230:4 273:20	83:6 87:19
approaches	149:6,20 150:1	273:24 296:4	113:10 198:1
292:9	150:3,10	325:20 329:4	201:15 206:4
appropriate	152:23 159:16	331:8 340:18	212:13,17
18:3 41:13	206:15 209:23	354:14 356:3	215:19 223:13
78:23 79:23	223:7 246:19	357:20 362:15	230:1,4,8,12
122:18 126:13	251:8 307:21	397:22 398:2,8	248:11,13,13
187:12 197:6	354:6 369:11	398:14,14	253:19 254:1,5
236:2 289:18	369:22 375:6	399:9,18,19,20	254:15,21
340:19 359:2	375:17 463:17	414:14 422:6	273:19 331:9
377:20 381:11	492:5 524:23	422:11 423:24	357:22 414:15
396:15 416:8	areas 50:9	424:16,21	429:4,11
439:21 463:15	157:13 223:21	425:15 428:21	440:22 485:10
494:19 519:15	391:12 418:8	428:21,22,22	522:13,18,19
524:17,21	argument 87:3	428:23 429:22	asa 8:16 361:18
appropriately	armed 95:20	430:4 431:3	363:14,15,19
87:21 179:2	arrangements	432:17 437:4,5	asbestiform
281:23 502:16	381:21	437:9,10,12	206:13,14,24
approve 79:17	article 28:12	438:22 440:9	226:13 354:10
533:10	82:22 84:7	443:2,13,19	asbestos 6:22
approved	85:14,18 86:15	447:1 448:15	11:10,11
384:10	87:15 88:5 90:7	450:20 451:11	183:16 197:18
approximately	90:16 95:19	453:7,8,20	198:13 200:10
55:23	97:8,12,16,22	454:1,7,13,24	201:8,18,21,21
approximating	98:3 118:9	455:4,9 458:3	202:23 203:1
367:15	122:11 123:3,8	458:15 460:24	203:23 205:3,4
april 1:15 2:8	123:11 124:13	477:3,4,14,23	205:23 206:7
7:3 246:15	124:15 134:17	478:17,18	206:16 207:4,7
arbitrary 312:7	134:18 145:13	493:15 496:17	207:15,18
area 8:18,20	148:20 170:4	500:14,17,23	208:5,9 210:2
23:15 28:4 29:6	170:10 174:1	501:14 510:20	212:18 215:12
29:18 81:10	175:17 181:21	510:22 515:8	221:1,17 222:5
89:15 90:2	187:10 194:4,6	515:11 524:14	222:8,12,15,18
91:16,24	194:21 195:1,6		222:19,21

[asbestos - association]

Page 11

223:6,9,14,21	523:3 526:8	asking 13:22	370:4,8 405:19
224:5,9,13,17	asked 18:3	18:9,14 27:14	406:15 407:4
224:19 225:1,5	41:23 57:6	30:9 137:16	408:7 410:18
225:7,19,21,24	64:13 72:12	153:18 194:20	416:15 434:12
226:4,10,24	73:11,14,16,23	198:3 256:20	443:2 457:5
238:20 239:24	75:23 76:1	275:2 393:8	475:22 502:20
240:7,17	138:14 169:12	413:23 417:14	508:10
241:18 306:21	179:8 184:7	422:3 425:7	assessments
309:13 354:10	202:8 210:11	433:15,22	38:10 113:12
424:5 429:3	239:14 243:10	457:22 460:17	319:22 340:18
431:20 432:3	271:18 272:18	461:22 471:13	assign 174:7
445:5,13 464:4	275:12 317:5	505:21 529:3	236:18 409:6
468:11 469:12	317:14 342:16	aspect 430:3	assigned 409:3
470:7 478:11	349:17 372:7	assess 170:3,15	assist 235:11
479:21 480:7	372:14 376:19	178:11 185:24	associate
480:21 481:9	384:2 418:9	233:18 236:15	504:10
481:13,13	419:1,18	255:2 262:9	associated 19:9
483:17,24	426:21 427:24	282:7 366:23	113:3 157:17
485:11,13	429:14 433:24	405:2,14 494:1	158:5 159:24
487:5,17	434:1 435:4,18	511:18 512:11	300:21 504:15
488:12 489:13	447:9 454:16	assessed 129:13	506:21 509:11
489:22 531:14	463:23 464:24	133:10 334:15	509:15,17,19
535:20 536:3	466:14 467:5,7	337:3 367:9	association 6:7
ascertained	469:11,13	assessing	7:13 8:17 9:6
182:6	470:10 473:10	281:23 312:19	9:11 10:3 11:4
ascertainment	480:5 488:1	516:16	28:5 31:19,22
122:18	499:21 500:6,9	assessment	84:9 85:7 87:4
ashcraft 2:14	504:18 506:3	37:10,20,23	89:19,21 90:14
3:14	507:20 508:6	38:16,20,23	90:15 93:10
ashcraftlaw.c	508:18,22	39:4,8,11,21	96:16 101:7,12
3:19	512:19,21	40:1,6 41:16	101:13,19,24
ashkenazi	524:11 526:13	154:2 159:23	102:11 113:1
158:24	529:23 530:16	186:21 197:13	130:9 139:14
aside 93:24	530:18 535:3	229:8 235:5	140:2 142:16
98:7 292:15	535:19,21,24	261:15 281:17	142:23 143:7
389:6 474:9		303:3 324:8	143:15,19
l	1	1	1

[association - authors]

Page 12

144:8,16,19,22 328:5 329:17 512:17 astorney 18:6 147:11,13 330:22 335:23 assume 20:4 18:18 202:21 155:10 165:3 336:1 337:1,10 190:16 278:1 418:4 471:13 181:6 183:1,17 340:17 357:20 534:8 18:3 19:18 183:22 184:1 361:5 362:12 assumed 22:11 30:6 184:11,23 362:03 63:12 319:13 67:20 70:14 186:6,10,13,17 364:9 367:17 assumes 203:3 187:12,17,18 368:6 369:10 assuming 41:18 187:23 188:3 369:17 371:18 190:21 294:1 90:9 113:2 207:14 22:4 372:3 373:8,12 413:16 390:17 233:8 234:2,3 387:21 392:1 45:16 390:17 234:24 246:18 392:10 402:10 260:10 280:10 audibly 15:5 259:4 260:11 427:17,22 506:8 507:24 audibly 15:5 282:8 290:1,12 45:19,20,21 305:22 404:13 author 12:5,9 282:8 290:1,12 45:16,476:2,5 <t< th=""><th>_</th><th>_</th><th></th><th></th></t<>	_	_		
155:10 165:3 336:1 337:1,10 190:16 278:1 418:4 471:13 168:9 170:8 337:21 339:13 368:3 412:2 attorneys 17:15 181:6 183:1,17 340:17 357:20 534:8 22:11 30:6 184:11,23 362:20 363:12 319:13 67:20 70:14 186:6,10,13,17 364:9 367:17 assumed 22:11 30:6 187:12,17,18 368:6 369:10 392:12 4529:21 187:23 188:3 369:17 371:18 190:21 294:1 390:17 229:17 231:22 375:5 378:16 assumption attributable 233:8 234:2,3 387:21 392:1 169:8 179:1 attributed 233:8 234:2,3 387:17,722 50:8 507:24 audibly 15:5 234:24 246:18 392:10 402:10 260:10 280:10 audibly 15:5 251:7 258:15 422:8 425:1 367:7 404:4 audience 91:15 259:4 260:11 427:17,22 50:68 507:24 august 8:7,16 280:7 281:21 442:10 443:5 31:212 45:14 300:11,24 459:19,20,21 305:22 404:13 30:52 260:10	144:8,16,19,22	328:5 329:17	512:17	attorney 18:6
168:9 170:8 337:21 339:13 368:3 412:2 attorneys 17:15 181:6 183:1,17 340:17 357:20 534:8 18:3 19:18 183:22 184:1 361:5 362:12 319:13 67:20 70:14 186:6,10,13,17 364:9 367:17 assumes 203:3 187:12,17,18 368:6 369:10 assuming 41:18 187:23 188:3 369:17 371:18 190:21 294:1 392:24 529:21 207:14 222:4 372:3 373:8,12 375:5 378:16 assumption attributable 233:8 234:2,3 387:21 392:1 367:7 404:4 390:17 234:24 246:18 392:10 402:10 367:7 404:4 160:5 235:4 260:11 427:17,22 506:8 507:24 30dibly 15:5 259:4 260:11 427:17,22 506:8 507:24 30dibly 15:5 280:7 281:21 442:10 443:5 31:12:12 45:14 280:7 281:21 455:19,20,21 305:22 404:13 325:16 332:14 302:13,15,18 477:23 495:23 316:12 325:16 332:14 302:13,15,18 477:23 495:23 328:5 328:1 </td <td>147:11,13</td> <td>330:22 335:23</td> <td>assume 20:4</td> <td>18:18 202:21</td>	147:11,13	330:22 335:23	assume 20:4	18:18 202:21
181:6 183:1,17 340:17 357:20 534:8 18:3 19:18 183:22 184:1 361:5 362:12 3ssumed 22:11 30:6 184:11,23 362:20 363:12 319:13 67:20 70:14 186:6,10,13,17 364:9 367:17 assumes 203:3 71:12,24 186:23 187:7 367:19,20 528:23 392:24 529:21 187:12,17,18 368:6 369:10 assuming 41:18 attributable 187:23 188:3 369:17 371:18 190:21 294:1 90:9 113:2 207:14 222:4 372:3 373:8,12 assumption attributed 233:8 234:2,3 387:21 392:1 a69:10 280:10 attributed 233:8 234:2,3 387:21 392:1 260:10 280:10 attributed 251:7 258:15 422:8 425:1 367:7 404:4 attributed 259:4 260:11 427:17,22 506:8 507:24 august 8:7,16 280:7 281:21 442:10 443:5 512:12 45:14 280:7 281:21 458:19,20,21 attempted author 121:5,9 300:11,24 46:9 475:10 attended 70:2 325:16 332:14	155:10 165:3	336:1 337:1,10	190:16 278:1	418:4 471:13
183:22 184:1 361:5 362:12 assumed 22:11 30:6 184:11,23 362:20 363:12 319:13 67:20 70:14 186:6,10,13,17 364:9 367:17 assumes 203:3 187:12,17,18 368:6 369:10 assuming 41:18 187:23 188:3 369:17 371:18 390:12 294:1 390:17 207:14 222:4 372:3 373:8,12 413:16 390:17 229:17 231:22 375:5 378:16 assumption attributed 233:8 234:2,3 387:21 392:1 169:8 179:1 160:5 234:24 246:18 392:10 402:10 260:10 280:10 adibly 15:5 251:7 258:15 422:8 425:1 367:7 404:4 audibly 15:5 251:7 280:3,6 441:15,18,23 510:11 512:5 9:13 43:22 279:17 280:3,6 441:15,18,23 459:23 461:7 attempted 305:22 404:13 attended 70:2 325:16 332:14 300:11,24 462:9 475:10 305:22 404:13 attended 70:2 325:16 332:14 302:13,15,18 475:16 476:2,5 91:4 51:22 380:2,4 520:7,8 316:10,13,16 <td>168:9 170:8</td> <td>337:21 339:13</td> <td>368:3 412:2</td> <td>attorneys 17:15</td>	168:9 170:8	337:21 339:13	368:3 412:2	attorneys 17:15
184:11,23 362:20 363:12 319:13 67:20 70:14 186:6,10,13,17 364:9 367:17 assumes 203:3 71:12,24 186:23 187:7 367:19,20 528:23 392:24 529:21 187:12,17,18 368:6 369:10 assuming 41:18 187:23 188:3 369:17 371:18 190:21 294:1 90:9 113:2 207:14 222:4 372:3 373:8,12 413:16 390:17 229:17 231:22 375:5 378:16 assumption attributed 233:8 234:2,3 387:21 392:1 402:10 280:10 adibly 15:5 234:24 246:18 392:10 402:10 260:10 280:10 adibly 15:5 251:7 258:15 422:8 425:1 367:7 404:4 adience 91:15 259:4 260:11 427:17,22 506:8 507:24 adujence 91:15 280:7 281:21 442:10 443:5 attempted author 121:5,9 300:11,24 462:9 475:10 305:22 404:13 attended 70:2 325:16 332:14 302:13,15,18 475:16 476:2,5 475:22 298:13 300:23	181:6 183:1,17	340:17 357:20	534:8	18:3 19:18
186:6,10,13,17 364:9 367:17 assumes 203:3 71:12,24 186:23 187:7 367:19,20 528:23 392:24 529:21 187:12,17,18 368:6 369:10 assuming 41:18 attributable 187:23 188:3 369:17 371:18 190:21 294:1 90:9 113:2 207:14 222:4 372:3 373:8,12 413:16 390:17 229:17 231:22 375:5 378:16 assumption attributed 233:8 234:2,3 387:21 392:1 260:10 280:10 adibly 15:5 234:24 246:18 392:10 402:10 260:10 280:10 adibly 15:5 251:7 258:15 422:8 425:1 367:7 404:4 audience 91:15 259:4 260:11 427:17,22 506:8 507:24 audience 91:15 261:7,14 433:3 436:21 510:11 512:5 9:13 43:22 45:14 279:17 280:3,6 441:15,18,23 458:19,20,21 attempted author 121:5,9 282:8 290:1,12 458:19,20,21 459:23 461:7 attended 70:2 30:25:16 332:14 302:13,15,18 <td>183:22 184:1</td> <td>361:5 362:12</td> <td>assumed</td> <td>22:11 30:6</td>	183:22 184:1	361:5 362:12	assumed	22:11 30:6
186:23 187:7 367:19,20 528:23 392:24 529:21 187:12,17,18 368:6 369:10 assuming 41:18 attributable 187:23 188:3 369:17 371:18 190:21 294:1 90:9 113:2 207:14 222:4 372:3 373:8,12 413:16 390:17 229:17 231:22 375:5 378:16 assumption attributed 233:8 234:2,3 387:21 392:1 169:8 179:1 160:5 234:24 246:18 392:10 402:10 260:10 280:10 audibly 15:5 259:4 260:11 427:17,22 506:8 507:24 audience 91:15 259:4 260:11 427:17,22 506:8 507:24 audience 91:15 261:7,14 433:3 436:21 510:11 512:5 9:13 43:22 279:17 280:3,6 441:15,18,23 512:12 45:14 282:8 290:1,12 458:19,20,21 attempted author 121:5,9 300:11,24 462:9 475:10 attended 70:2 305:22 404:13 325:16 332:14 302:13,15,18 477:23 495:23 attended 70:2 380:2,4 520:7,8 520:10 316:12 316:12 316:12	184:11,23	362:20 363:12	319:13	67:20 70:14
187:12,17,18 368:6 369:10 assuming 41:18 attributable 187:23 188:3 369:17 371:18 190:21 294:1 90:9 113:2 207:14 222:4 372:3 373:8,12 413:16 390:17 229:17 231:22 375:5 378:16 assumption attributed 233:8 234:2,3 387:21 392:1 169:8 179:1 160:5 234:24 246:18 392:10 402:10 260:10 280:10 audibly 15:5 251:7 258:15 422:8 425:1 367:7 404:4 audience 91:15 259:4 260:11 427:17,22 506:8 507:24 audience 91:15 261:7,14 433:3 436:21 510:11 512:5 9:13 43:22 279:17 280:3,6 441:15,18,23 512:12 45:14 280:7 281:21 442:10 443:5 attempted author 121:5,9 282:8 290:1,12 458:19,20,21 305:22 404:13 474:4 180:24 230:5 296:9 300:11,24 462:9 475:10 attended 70:2 325:16 332:14 301:13 31:17 500:10 502:2 316:12 380:23 30:23 520:	186:6,10,13,17	364:9 367:17	assumes 203:3	71:12,24
187:23 188:3 369:17 371:18 190:21 294:1 90:9 113:2 207:14 222:4 372:3 373:8,12 413:16 390:17 229:17 231:22 375:5 378:16 assumption 160:5 233:8 234:2,3 387:21 392:1 260:10 280:10 adibly 15:5 234:24 246:18 392:10 402:10 260:10 280:10 audibly 15:5 251:7 258:15 422:8 425:1 367:7 404:4 audience 91:15 259:4 260:11 427:17,22 506:8 507:24 audience 91:15 261:7,14 433:3 436:21 510:11 512:5 9:13 43:22 279:17 280:3,6 441:15,18,23 512:12 45:14 280:7 281:21 442:10 443:5 attempted author 121:5,9 282:8 290:1,12 458:19,20,21 305:22 404:13 474:4 180:24 291:19 298:13 459:23 461:7 attended 70:2 325:16 332:14 302:13,15,18 475:16 476:2,5 91:4 512:22 380:2,4 520:7,8 303:9 308:11 509:18,20,24 298:13 300:23 520:10 316:10,13,16 518:3,17 attenuate 532:6	186:23 187:7	367:19,20	528:23	392:24 529:21
207:14 222:4 372:3 373:8,12 413:16 390:17 229:17 231:22 375:5 378:16 assumption 169:8 179:1 160:5 233:8 234:2,3 387:21 392:1 260:10 280:10 adibly 15:5 234:24 246:18 392:10 402:10 260:10 280:10 adibly 15:5 251:7 258:15 422:8 425:1 367:7 404:4 adibly 15:5 259:4 260:11 427:17,22 506:8 507:24 audience 91:15 261:7,14 433:3 436:21 510:11 512:5 9:13 43:22 279:17 280:3,6 441:15,18,23 512:12 45:14 280:7 281:21 442:10 443:5 512:12 attempted 282:8 290:1,12 458:19,20,21 305:22 404:13 147:4 180:24 291:19 298:13 459:23 461:7 attended 70:2 325:16 332:14 300:11,24 462:9 475:10 91:4 512:22 380:2,4 520:7,8 303:9 308:11 477:23 495:23 316:12 380:2,4 520:7,8 310:13 312:17 500:10 502:2 316:12 attenuate 131:2 154:19 262:3 316:10,13,16 518:3,17 328:5 197:16 198:10 532:6 319:10,15 259	187:12,17,18	368:6 369:10	assuming 41:18	attributable
229:17 231:22 375:5 378:16 assumption attributed 233:8 234:2,3 387:21 392:1 169:8 179:1 160:5 234:24 246:18 392:10 402:10 260:10 280:10 audibly 15:5 251:7 258:15 422:8 425:1 367:7 404:4 audience 91:15 259:4 260:11 427:17,22 506:8 507:24 august 8:7,16 261:7,14 433:3 436:21 510:11 512:5 9:13 43:22 279:17 280:3,6 441:15,18,23 512:12 45:14 280:7 281:21 442:10 443:5 attempted author 121:5,9 282:8 290:1,12 458:19,20,21 305:22 404:13 attend 435:18 230:5 296:9 300:11,24 462:9 475:10 462:9 475:10 316:12 380:2,4 520:7,8 303:9 308:11 477:23 495:23 attention 520:10 310:13 312:17 500:10 502:2 316:12 316:12 316:10,13,16 518:3,17 attenuate 131:2 316:18 317:23 associations 328:5 197:16 198:10 319:10,15	187:23 188:3	369:17 371:18	190:21 294:1	90:9 113:2
233:8 234:2,3 387:21 392:1 169:8 179:1 160:5 234:24 246:18 392:10 402:10 260:10 280:10 audibly 15:5 251:7 258:15 422:8 425:1 367:7 404:4 audience 91:15 259:4 260:11 427:17,22 506:8 507:24 august 8:7,16 261:7,14 433:3 436:21 510:11 512:5 9:13 43:22 279:17 280:3,6 441:15,18,23 512:12 45:14 280:7 281:21 442:10 443:5 attempted author 121:5,9 282:8 290:1,12 458:19,20,21 305:22 404:13 230:5 296:9 300:11,24 462:9 475:10 attended 70:2 325:16 332:14 302:13,15,18 475:16 476:2,5 91:4 512:22 380:2,4 520:7,8 303:9 308:11 477:23 495:23 attention 316:12 380:2,4 520:7,8 312:23 313:15 503:23 507:1,5 298:13 300:23 328:5 197:16 198:10 316:10,13,16 518:3,17 328:5 197:16 198:10 532:6 319:10,15 259:10 281:22 367:19 475:24 267:17 333:18 323:11,16,24	207:14 222:4	372:3 373:8,12	413:16	390:17
234:24 246:18 392:10 402:10 260:10 280:10 audibly 15:5 251:7 258:15 422:8 425:1 367:7 404:4 audience 91:15 259:4 260:11 427:17,22 506:8 507:24 august 8:7,16 261:7,14 433:3 436:21 510:11 512:5 9:13 43:22 279:17 280:3,6 441:15,18,23 512:12 45:14 280:7 281:21 442:10 443:5 attempted author 121:5,9 282:8 290:1,12 458:19,20,21 305:22 404:13 attended 435:18 230:5 296:9 300:11,24 462:9 475:10 attended 70:2 325:16 332:14 302:13,15,18 475:16 476:2,5 91:4 512:22 380:2,4 520:7,8 303:9 308:11 477:23 495:23 attention 316:12 authored 108:4 312:23 313:15 503:23 507:1,5 328:5 197:16 198:10 532:6 316:10,13,16 518:3,17 attenuated 168:6 324:18 197:16 198:10 316:18 317:23 associations 168:6 324:18 authority 191:20 215:23	229:17 231:22	375:5 378:16	assumption	attributed
251:7 258:15 422:8 425:1 367:7 404:4 audience 91:15 259:4 260:11 427:17,22 506:8 507:24 august 8:7,16 261:7,14 433:3 436:21 510:11 512:5 9:13 43:22 279:17 280:3,6 441:15,18,23 512:12 45:14 280:7 281:21 442:10 443:5 attempted author 121:5,9 282:8 290:1,12 458:19,20,21 305:22 404:13 attend 435:18 230:5 296:9 300:11,24 462:9 475:10 attended 70:2 325:16 332:14 302:13,15,18 475:16 476:2,5 91:4 512:22 380:2,4 520:7,8 303:9 308:11 477:23 495:23 attention 520:10 310:13 312:17 500:10 502:2 attenuate 131:2 520:10 315:22 316:7 512:16,18 328:5 197:16 198:10 316:10,13,16 518:3,17 attenuated 532:6 316:18 317:23 associations 168:6 324:18 191:20 215:23 319:10,15 259:10 281:22 367:19 475:24 267:17 333:18 323:11,16,24 324:17 325:13 attenuation 533:20 536:1 324:3,12 330:23 386:13 185:8 367:13<	233:8 234:2,3	387:21 392:1	169:8 179:1	160:5
259:4 260:11 427:17,22 506:8 507:24 august 8:7,16 261:7,14 433:3 436:21 510:11 512:5 9:13 43:22 279:17 280:3,6 441:15,18,23 512:12 45:14 280:7 281:21 442:10 443:5 attempted author 121:5,9 282:8 290:1,12 458:19,20,21 305:22 404:13 4uthor 121:5,9 291:19 298:13 459:23 461:7 attend 435:18 230:5 296:9 300:11,24 462:9 475:10 attended 70:2 325:16 332:14 302:13,15,18 475:16 476:2,5 91:4 512:22 380:2,4 520:7,8 303:9 308:11 477:23 495:23 attention 520:10 310:13 312:17 500:10 502:2 attenuate 131:2 154:19 262:3 314:11 315:19 509:18,20,24 298:13 300:23 authorities 315:22 316:7 512:16,18 328:5 197:16 198:10 316:18 317:23 associations 168:6 324:18 authority 318:3,6 319:4,9 92:2 174:21 325:13 367:11 267:17 333:18 323:11,16,24 324:17 325:13 367:19 475:24 267:17	234:24 246:18	392:10 402:10	260:10 280:10	audibly 15:5
261:7,14 433:3 436:21 510:11 512:5 9:13 43:22 279:17 280:3,6 441:15,18,23 512:12 45:14 280:7 281:21 442:10 443:5 attempted author 121:5,9 282:8 290:1,12 458:19,20,21 305:22 404:13 147:4 180:24 291:19 298:13 459:23 461:7 attend 435:18 230:5 296:9 300:11,24 462:9 475:10 attended 70:2 325:16 332:14 302:13,15,18 475:16 476:2,5 91:4 512:22 380:2,4 520:7,8 303:9 308:11 500:10 502:2 attention 520:10 310:13 312:17 500:10 502:2 attenuate 131:2 298:13 300:23 316:12 316:12 authored 108:4 154:19 262:3 154:19 262:3 316:10,13,16 518:3,17 328:5 197:16 198:10 316:18 317:23 associations 168:6 324:18 325:13 367:11 532:6 319:10,15 259:10 281:22 367:19 475:24 267:17 333:18 323:11,16,24 324:17 325:13 367:19 475:24 267:17 333:18 324:3,12 330:23 386:13 185:8 367:13 authors 39:3	251:7 258:15	422:8 425:1	367:7 404:4	audience 91:15
279:17 280:3,6 441:15,18,23 512:12 45:14 280:7 281:21 442:10 443:5 attempted author 121:5,9 282:8 290:1,12 458:19,20,21 305:22 404:13 147:4 180:24 291:19 298:13 459:23 461:7 attend 435:18 230:5 296:9 300:11,24 462:9 475:10 attended 70:2 325:16 332:14 302:13,15,18 475:16 476:2,5 91:4 512:22 380:2,4 520:7,8 303:9 308:11 477:23 495:23 attention 520:10 310:13 312:17 500:10 502:2 316:12 authored 108:4 312:23 313:15 503:23 507:1,5 attenuate 131:2 154:19 262:3 314:11 315:19 509:18,20,24 298:13 300:23 authorities 316:10,13,16 518:3,17 attenuated 532:6 316:18 317:23 associations 168:6 324:18 325:16 198:10 319:10,15 259:10 281:22 367:19 475:24 267:17 333:18 323:11,16,24 324:17 325:13 367:19 475:24 53:20 536:1 324:3,12 330:23 386:13 185:8 367:13 authors 39:3	259:4 260:11	427:17,22	506:8 507:24	august 8:7,16
280:7 281:21 442:10 443:5 attempted 305:22 404:13 author 121:5,9 282:8 290:1,12 458:19,20,21 305:22 404:13 147:4 180:24 291:19 298:13 459:23 461:7 attend 435:18 230:5 296:9 300:11,24 462:9 475:10 attended 70:2 325:16 332:14 302:13,15,18 475:16 476:2,5 91:4 512:22 380:2,4 520:7,8 303:9 308:11 477:23 495:23 attention 520:10 310:13 312:17 500:10 502:2 attenuate 131:2 authored 108:4 312:23 313:15 503:23 507:1,5 298:13 300:23 authorities 315:22 316:7 512:16,18 328:5 197:16 198:10 316:18 317:23 associations 168:6 324:18 191:20 215:23 319:10,15 259:10 281:22 367:19 475:24 267:17 333:18 323:11,16,24 324:17 325:13 367:19 475:24 533:20 536:1 324:3,12 330:23 386:13 185:8 367:13 authors 39:3	261:7,14	433:3 436:21	510:11 512:5	9:13 43:22
282:8 290:1,12 458:19,20,21 305:22 404:13 147:4 180:24 291:19 298:13 459:23 461:7 attend 435:18 230:5 296:9 300:11,24 462:9 475:10 attended 70:2 325:16 332:14 302:13,15,18 475:16 476:2,5 91:4 512:22 380:2,4 520:7,8 303:9 308:11 500:10 502:2 attention 520:10 310:13 312:17 500:10 502:2 attenuate 131:2 authored 108:4 312:23 313:15 503:23 507:1,5 attenuate 131:2 154:19 262:3 314:11 315:19 509:18,20,24 298:13 300:23 authorities 316:10,13,16 518:3,17 attenuated 532:6 316:18 317:23 associations 168:6 324:18 191:20 215:23 319:10,15 259:10 281:22 367:19 475:24 267:17 333:18 323:11,16,24 324:17 325:13 attenuation 533:20 536:1 324:3,12 330:23 386:13 185:8 367:13 authors 39:3	279:17 280:3,6	441:15,18,23	512:12	45:14
291:19 298:13 459:23 461:7 attend 435:18 230:5 296:9 300:11,24 462:9 475:10 attended 70:2 325:16 332:14 302:13,15,18 475:16 476:2,5 91:4 512:22 380:2,4 520:7,8 303:9 308:11 477:23 495:23 attention 520:10 310:13 312:17 500:10 502:2 attenuate 131:2 authored 108:4 312:23 313:15 503:23 507:1,5 attenuate 131:2 154:19 262:3 314:11 315:19 509:18,20,24 298:13 300:23 authorities 315:22 316:7 512:16,18 328:5 197:16 198:10 316:10,13,16 518:3,17 attenuated 532:6 318:3,6 319:4,9 92:2 174:21 325:13 367:11 191:20 215:23 319:10,15 259:10 281:22 367:19 475:24 267:17 333:18 323:11,16,24 324:17 325:13 attenuation 533:20 536:1 324:3,12 330:23 386:13 185:8 367:13 authors 39:3	280:7 281:21	442:10 443:5	attempted	author 121:5,9
300:11,24 462:9 475:10 attended 70:2 325:16 332:14 302:13,15,18 475:16 476:2,5 91:4 512:22 380:2,4 520:7,8 303:9 308:11 477:23 495:23 attention 520:10 310:13 312:17 500:10 502:2 attenuate 131:2 authored 108:4 312:23 313:15 503:23 507:1,5 attenuate 131:2 authored 108:4 314:11 315:19 509:18,20,24 298:13 300:23 authorities 315:22 316:7 512:16,18 328:5 197:16 198:10 316:10,13,16 518:3,17 attenuated 532:6 318:3,6 319:4,9 92:2 174:21 325:13 367:11 191:20 215:23 319:10,15 259:10 281:22 367:19 475:24 267:17 333:18 323:11,16,24 324:17 325:13 attenuation 533:20 536:1 324:3,12 330:23 386:13 185:8 367:13 authors 39:3	282:8 290:1,12	458:19,20,21	305:22 404:13	147:4 180:24
302:13,15,18 475:16 476:2,5 91:4 512:22 380:2,4 520:7,8 303:9 308:11 477:23 495:23 attention 520:10 310:13 312:17 500:10 502:2 attenuate 131:2 authored 108:4 312:23 313:15 503:23 507:1,5 attenuate 131:2 154:19 262:3 314:11 315:19 509:18,20,24 298:13 300:23 authorities 315:22 316:7 512:16,18 328:5 197:16 198:10 316:10,13,16 518:3,17 attenuated 532:6 316:18 317:23 associations 168:6 324:18 authority 319:10,15 259:10 281:22 367:19 475:24 267:17 333:18 323:11,16,24 324:17 325:13 attenuation 533:20 536:1 324:3,12 330:23 386:13 185:8 367:13 authors 39:3	291:19 298:13	459:23 461:7	attend 435:18	230:5 296:9
303:9 308:11 477:23 495:23 attention 520:10 310:13 312:17 500:10 502:2 316:12 authored 108:4 312:23 313:15 503:23 507:1,5 attenuate 131:2 154:19 262:3 314:11 315:19 509:18,20,24 298:13 300:23 authorities 315:22 316:7 512:16,18 328:5 197:16 198:10 316:10,13,16 518:3,17 attenuated 532:6 316:18 317:23 associations 168:6 324:18 authority 318:3,6 319:4,9 92:2 174:21 325:13 367:11 191:20 215:23 319:10,15 259:10 281:22 367:19 475:24 267:17 333:18 323:11,16,24 324:17 325:13 attenuation 533:20 536:1 324:3,12 330:23 386:13 185:8 367:13 authors 39:3	300:11,24	462:9 475:10	attended 70:2	325:16 332:14
310:13 312:17 500:10 502:2 316:12 authored 108:4 312:23 313:15 503:23 507:1,5 attenuate 131:2 154:19 262:3 314:11 315:19 509:18,20,24 298:13 300:23 authorities 315:22 316:7 512:16,18 328:5 197:16 198:10 316:10,13,16 518:3,17 attenuated 532:6 316:18 317:23 associations 168:6 324:18 authority 318:3,6 319:4,9 92:2 174:21 325:13 367:11 191:20 215:23 319:10,15 259:10 281:22 367:19 475:24 267:17 333:18 323:11,16,24 324:17 325:13 attenuation 533:20 536:1 324:3,12 330:23 386:13 185:8 367:13 authors	302:13,15,18	475:16 476:2,5	91:4 512:22	380:2,4 520:7,8
312:23 313:15 503:23 507:1,5 attenuate 131:2 154:19 262:3 314:11 315:19 509:18,20,24 298:13 300:23 authorities 315:22 316:7 512:16,18 328:5 197:16 198:10 316:10,13,16 518:3,17 attenuated 532:6 316:18 317:23 associations 168:6 324:18 authority 318:3,6 319:4,9 92:2 174:21 325:13 367:11 191:20 215:23 319:10,15 259:10 281:22 367:19 475:24 267:17 333:18 323:11,16,24 324:17 325:13 attenuation 533:20 536:1 324:3,12 330:23 386:13 185:8 367:13 authors	303:9 308:11	477:23 495:23	attention	520:10
314:11 315:19 509:18,20,24 298:13 300:23 authorities 315:22 316:7 512:16,18 328:5 197:16 198:10 316:10,13,16 518:3,17 attenuated 532:6 316:18 317:23 associations 168:6 324:18 authority 318:3,6 319:4,9 92:2 174:21 325:13 367:11 191:20 215:23 319:10,15 259:10 281:22 367:19 475:24 267:17 333:18 323:11,16,24 324:17 325:13 attenuation 533:20 536:1 324:3,12 330:23 386:13 185:8 367:13 authors 39:3	310:13 312:17	500:10 502:2	316:12	authored 108:4
315:22 316:7 512:16,18 328:5 197:16 198:10 316:10,13,16 518:3,17 attenuated 532:6 316:18 317:23 associations 168:6 324:18 authority 318:3,6 319:4,9 92:2 174:21 325:13 367:11 191:20 215:23 319:10,15 259:10 281:22 367:19 475:24 267:17 333:18 323:11,16,24 324:17 325:13 attenuation 533:20 536:1 324:3,12 330:23 386:13 185:8 367:13 authors 39:3	312:23 313:15	503:23 507:1,5	attenuate 131:2	154:19 262:3
316:10,13,16 518:3,17 attenuated 532:6 316:18 317:23 associations 168:6 324:18 authority 318:3,6 319:4,9 92:2 174:21 325:13 367:11 191:20 215:23 319:10,15 259:10 281:22 367:19 475:24 267:17 333:18 323:11,16,24 324:17 325:13 attenuation 533:20 536:1 324:3,12 330:23 386:13 185:8 367:13 authors 39:3	314:11 315:19	, ,	298:13 300:23	authorities
316:18 317:23 associations 168:6 324:18 authority 318:3,6 319:4,9 92:2 174:21 325:13 367:11 191:20 215:23 319:10,15 259:10 281:22 367:19 475:24 267:17 333:18 323:11,16,24 324:17 325:13 attenuation 533:20 536:1 324:3,12 330:23 386:13 185:8 367:13 authors 39:3	315:22 316:7	512:16,18	328:5	197:16 198:10
318:3,6 319:4,9 92:2 174:21 325:13 367:11 191:20 215:23 319:10,15 259:10 281:22 367:19 475:24 267:17 333:18 323:11,16,24 324:17 325:13 attenuation 533:20 536:1 324:3,12 330:23 386:13 185:8 367:13 authors 39:3	316:10,13,16	518:3,17	attenuated	532:6
319:10,15 259:10 281:22 367:19 475:24 267:17 333:18 323:11,16,24 324:17 325:13 attenuation 533:20 536:1 324:3,12 330:23 386:13 185:8 367:13 authors 39:3	316:18 317:23	associations	168:6 324:18	
323:11,16,24 324:17 325:13 attenuation 533:20 536:1 324:3,12 330:23 386:13 185:8 367:13 authors 39:3	· · · · · · · · · · · · · · · · · · ·			
324:3,12 330:23 386:13 185:8 367:13 authors 39:3	· · · · · · · · · · · · · · · · · · ·		367:19 475:24	267:17 333:18
· I I I I I I I I I I I I I I I I I I I				533:20 536:1
325:18,22 501:22 512:2 368:4 388:11 97:3 163:9	,			
	325:18,22	501:22 512:2	368:4 388:11	97:3 163:9

[authors - based]

Page	1	3
	_	_

164:23 169:15	avenues 148:7	481:22 530:7	331:2 336:11
170:14 177:21	average 412:3,5	baby 81:9	342:13 346:11
180:8 182:5	avoid 174:9	226:5,10,22	355:11 359:6
184:19 196:7	429:1 464:5	309:4 506:20	381:16 391:8
197:8 228:14	avoidance	508:12 509:11	397:11 401:13
295:6 297:12	462:20	509:22,23	409:14 417:8
323:22 326:19	avoided 361:13	510:1	421:24 425:24
333:7 334:11	434:22	back 22:12 23:2	426:5,16,19
335:21 336:23	aware 29:15	29:9 33:17	444:19 451:10
338:9 348:2	40:20 43:11	44:12 56:6	471:19 473:8
356:7 370:18	57:9 60:17 66:3	59:17 60:9	512:22 522:17
379:24 387:10	68:14 75:7 96:3	62:23 65:15,17	528:5,6 534:13
400:4 404:11	96:4 113:16	66:21 67:5,13	backdrop
405:13 406:21	145:14 159:12	72:21 78:15	472:17
408:20 410:7	159:14 160:12	89:17 94:20	backed 534:6
420:23 519:8	169:23 170:12	95:6 97:1,4,5	background
autism 28:14	193:3,6,9 201:5	100:1 103:7	223:21 224:4,9
28:23 29:23	201:14,15	107:7 109:5	376:9 484:17
31:17 32:24	209:2 223:5,20	116:3 118:12	534:19
33:10,24 34:20	224:3,14	121:12 123:5	bacon 4:16
available 15:15	238:17 240:3	125:20 126:14	balance 48:20
203:13 213:7	249:21 252:3,8	128:12 139:20	49:9
214:16,16,21	252:11 296:1,7	143:3 145:17	balanced
214:22 217:11	301:6 302:5	155:2,5 157:21	439:20,23
218:15,24	333:4,5 395:17	178:5,9 186:2	463:12 513:18
229:18 237:5	480:14 485:16	194:9 200:12	515:6
240:7 243:14	519:7 520:12	218:8 246:17	barr 3:5
244:4 251:17	520:18 525:1	247:17 252:3	barring 213:7
251:20 270:21	525:19 526:1,5	255:19 278:15	base 17:23
287:3 332:11	awful 235:20	278:23 280:14	247:5
393:6 400:7	b	287:12 288:3,5	based 31:22
452:17 518:11	b 242:24 243:8	288:7 290:18	50:6 78:22 84:9
519:6 532:2	321:13,20	293:4 299:14	85:9 86:1 87:14
avedisian 190:6	468:21,22	301:22 310:18	92:4 99:12
190:7	469:1,2 481:19	312:20 314:2	103:7 105:7
	707.1,2 701.17	316:24 329:20	106:12,19
	Gollrow To		

[based - believe]

Page	e 14
- ~>`	

131:24 132:11	416:4 535:6	78:13 79:3,9	249:23 262:12
140:6,12,24	bathing 335:2	80:3,14,14	276:9 279:7,9
165:19 168:20	baylen 3:7	86:16 89:13	280:23 281:11
182:18 187:7	bearing 382:17	90:6 91:19,22	281:14 282:23
196:18,18	384:5	99:20 102:6,7	283:1 284:19
205:4 214:23	began 206:6	104:23 105:11	291:4 295:19
218:23 248:7	beginning	107:11,17,19	296:14 298:17
254:19 271:10	95:12 246:11	114:11,23	300:19 304:11
272:15 280:12	339:5 340:10	115:6,7,16	310:9 313:22
310:10 316:15	374:11,19	119:21 129:13	318:13 325:23
317:12 319:22	502:19	135:4,5 136:14	331:18,24
326:21 327:14	begins 112:20	136:14 137:10	332:3 341:4
327:21,24	153:9 167:21	137:17 138:8	342:24 347:8
328:13,16,18	186:5 256:3	138:21 139:4,5	354:6 362:5
328:21,24	365:14 379:20	139:10 141:13	367:14 369:14
329:3 330:2	387:6 408:5	141:15 144:20	371:21 373:7
337:12 341:4	begun 185:6	145:12,22	378:15 380:19
348:12 367:7	behalf 202:22	146:2,7 148:18	383:6,14
389:16 418:14	behavior 450:4	148:19 149:8	386:10 388:5
427:20 450:21	belief 176:18	149:22 150:16	388:24 391:20
452:16 472:4	262:14 263:18	155:19,20	392:14 393:4
483:18 493:21	289:17 428:24	156:1,15 158:4	393:22 398:15
507:7,24	believable	159:2,19	402:21,22
508:16 512:2	234:4 237:6	160:11 164:1	407:23 410:20
baseline 371:6	believe 13:3,7	168:24 170:5	411:13,13
504:14	14:23 21:19	173:1,4 174:19	414:5,13
basic 304:14,15	29:20 31:19	175:18 182:14	415:11 416:11
449:2	36:4 38:2 43:2	192:9 197:11	417:11 418:17
basically 90:7	43:5 47:7 49:23	206:21 207:21	419:7 432:8
197:12 241:15	49:23 54:13	213:4,4 228:16	433:1 439:20
254:4 358:2	56:13 59:22,23	228:21 232:4	446:12 451:14
436:14	60:2 61:10,20	232:12 233:4	455:1 465:16
basis 30:22	61:21 62:3	233:14,22	465:17 467:12
38:1 64:16	63:19 64:19	234:2,15	471:23 475:23
244:18 334:14	65:4 66:17	236:17 237:15	476:8 493:24
408:1 412:4	75:20 77:17	242:8 249:17	494:4 496:7

[believe - board]

Page 15

			<i>\(\begin{align*} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ </i>
503:19 510:4	161:3,9,10	big 418:6,13	357:2 427:16
510:12 513:19	165:19 166:6	biggest 259:24	427:22 524:8
513:20 516:13	166:10,13	binders 5:10	biologically
516:18	168:13,19	bindman 69:19	139:13 207:13
believed 89:19	169:2,9 170:3,6	519:9 520:13	225:8,8,12
90:7,14 92:1	170:7,16	biologic 33:12	360:12 419:8
93:18 105:2	174:23 175:7	87:3 111:19	419:11,16
174:17	176:9 178:15	133:16 134:1	456:14 487:18
believes 263:9	179:6,11,13	134:10,14,24	biologist 426:23
263:19	182:8,11	135:10 136:8	biopsy 392:17
bell 68:23	188:18,19	136:20 137:7	biostatistics
beneath 376:18	189:17 229:22	137:13 138:3	25:5
benefit 463:14	232:18 258:14	138:11 224:19	bit 38:6 89:22
benefits 434:23	281:16 313:24	224:24 225:20	154:7 228:4
benign 23:22	314:12,13,15	227:5,18 228:8	291:10 293:8
berge 238:11	314:17 316:6,9	260:14 349:2	312:1 321:10
bernard 1:13	316:15 319:24	350:6 353:23	328:10 336:15
2:11 5:2,15	324:21 384:9	357:5 416:14	340:20 391:12
12:3,15 16:24	385:18 386:6	416:20 422:15	491:18 518:17
218:3 432:18	386:10,11	424:13 427:5	531:9
538:19	387:12 406:24	428:12 429:6	black 134:13
best 115:2	407:1,19,21	445:12 458:22	blocks 352:10
332:11 364:24	408:19 449:14	459:15 462:8	blvd 4:18
367:14 518:7	459:17 502:6	464:1 468:1,2	bmc 190:12,24
539:11	502:21 503:2	479:1,9 488:3	191:5
better 80:1	505:10	490:21 532:22	bmi 113:14
188:6 377:21	biased 383:15	biological 33:11	board 7:12
402:1	475:8,9	84:12 85:11	266:20,21,21
beyond 383:18	biases 85:23	108:8 134:19	266:22 268:7
422:2	92:3 171:17	135:14 137:4	272:12 273:18
bias 85:24 86:5	229:19 258:11	137:17,18,23	275:22 276:15
86:11 111:18	258:20 320:24	138:7 207:17	276:18,21
127:23 128:4,4	442:8 458:12	222:1,2 223:15	277:1,6,16
128:10,23	458:22 461:21	228:13 229:18	290:18,19
129:5,6,12,19	biasing 383:6	235:1 255:2	291:13
132:4 160:15		260:15 318:4	

[body - cancer] Page 16

body 6:7 81:17			
Doug 0./01.1/	106:10 124:23	breast 159:6	505:5
187:10 191:18	134:3,9 163:6	briefly 363:24	called 12:4 61:1
191:21 211:18	163:21 172:7	bring 15:10,13	62:6 101:6
224:16 310:22	196:3,5 286:19	16:2 418:12	218:4 234:7
329:15 330:9	330:19 334:9	bringing	288:7 289:5
356:14 357:16	349:3 352:7	382:10	430:6 520:15
358:6 360:1	357:6 374:8,16	brings 433:21	calling 108:21
432:8 489:9	375:13 385:7	brockovich	calls 263:13,22
500:15 511:22	385:14 409:16	28:17	466:20 469:19
bondurant	448:24 449:4,6	broke 302:1	canada 36:21
208:19	449:23 455:22	brought 392:21	37:3,6,9,19
borderline 10:8	484:7 521:15	439:11 499:21	38:9,19 39:13
145:8,11,15,21	bound 312:10	bu 190:23	39:17,21,24
146:1 334:17	312:11,11,12	buchanan 3:5	41:14 242:1
337:5,19,22	314:7,8 348:17	build 120:12	243:17 245:9
430:7,20	bounds 280:16	building 361:10	410:18,22
506:13,22	box 134:13	bursa 219:15	411:3,8,8,11,14
507:2 509:12	501:7,8,9	bush 430:13	489:21 490:10
510:1,10,13	bradford	business 16:18	491:10
boston 16:15	230:24 231:19	67:23	canada's 37:23
17:10 18:23	231:24 232:15	c	38:15,22 39:4
19:13 21:16,23	232:23 233:4	c 4:17 6:2 10:16	cancer 5:19 6:5
22:15 23:4,9	234:6 459:13	12:1 77:15,18	6:8,9,12,13,16
24:1,19,22	490:20,20	caffeine 147:18	6:19,21 7:4,15
25:23 26:3 53:1	brand 508:23	calculate	7:19,22 8:2,5
53:7 80:2	509:4	178:22 233:18	8:19,21 9:2,8
100.01 100.1 6	brca1 156:10	170.22 255.10	0.12 10.6 12 10
189:21 190:1,6	bicai 150.10	calculating	9:13 10:6,13,19
189:21 190:1,6 190:12 191:4	brca2 156:11	calculating	10:22 11:2 27:2
· · · · · · · · · · · · · · · · · · ·		133:7 433:16	·
190:12 191:4	brca2 156:11	133:7 433:16 calculation	10:22 11:2 27:2
190:12 191:4 211:12,14	brca2 156:11 break 44:8	133:7 433:16 calculation 486:18	10:22 11:2 27:2 27:6,11 28:2
190:12 191:4 211:12,14 394:4	brca2 156:11 break 44:8 63:11 133:18	133:7 433:16 calculation 486:18 call 51:9 177:14	10:22 11:2 27:2 27:6,11 28:2 42:4 57:17
190:12 191:4 211:12,14 394:4 bottle 489:24	brca2 156:11 break 44:8 63:11 133:18 139:16 218:9	133:7 433:16 calculation 486:18 call 51:9 177:14 179:22 206:17	10:22 11:2 27:2 27:6,11 28:2 42:4 57:17 63:22 65:20
190:12 191:4 211:12,14 394:4 bottle 489:24 bottles 226:23	brca2 156:11 break 44:8 63:11 133:18 139:16 218:9 292:21 349:18	133:7 433:16 calculation 486:18 call 51:9 177:14 179:22 206:17 451:21 473:11	10:22 11:2 27:2 27:6,11 28:2 42:4 57:17 63:22 65:20 81:11 82:16
190:12 191:4 211:12,14 394:4 bottle 489:24 bottles 226:23 bottom 48:19	brca2 156:11 break 44:8 63:11 133:18 139:16 218:9 292:21 349:18 355:14 492:5	133:7 433:16 calculation 486:18 call 51:9 177:14 179:22 206:17	10:22 11:2 27:2 27:6,11 28:2 42:4 57:17 63:22 65:20 81:11 82:16 83:7 84:13

[cancer - cancer]

Page 17

93:11,13 98:12	171:21 174:8	278:3,11	390:7,17,21,22
100:15 102:5	176:7 181:8,10	279:19 280:6	391:2,18,22,23
102:15 104:15	183:2,11,20	282:5 290:3,13	392:5,11,16
107:9 113:9	184:2 186:11	290:24 291:15	394:5,8,13
114:5,12,22	186:18,24	291:21 292:5,7	396:4 400:9,22
115:3,19,20	190:12,24	292:12 295:4	410:9 412:9
125:7,12 130:6	191:5,10 192:5	295:23 297:13	414:11,18,21
130:10 131:14	192:20 193:1,6	299:17 300:3	415:3,19
132:6 134:11	193:12 203:17	302:7 304:18	416:10 418:19
134:12 135:1	207:1 209:5	304:19,20,21	419:12 422:10
136:9,21 137:8	210:8 211:4	304:24 305:6	422:21,22
138:12,22	212:4,15,18	305:12,16	424:15 425:2
139:3,6,9 140:3	215:13 221:1	306:1,7,16,22	428:4,13 431:7
140:5,7,9,22,24	221:18 222:5,9	307:2 308:12	432:18 433:11
141:16 142:9	222:15,19,22	310:13,20	434:21 438:8
142:14 143:6,9	223:8,9,16,17	311:4,9 320:5	438:12 441:16
143:16,21	224:10,20	321:22,24	442:17 445:14
144:1,10 145:7	225:1,3,9,21	323:11,17,24	447:12 453:10
145:20 146:14	227:19 229:13	324:10,13,23	454:13,22
146:16,22	230:6,20	325:1,2,19	460:17,21
147:1,3,6,9,12	234:16 237:10	326:1 327:11	461:8 462:22
148:1 149:7,10	237:14 238:1	328:17,20	465:23 475:16
149:12,20	242:5 243:5,18	329:18 331:21	479:22 480:8
150:20 151:3,8	244:2 245:14	334:7 335:24	480:19,22
151:12 152:6	245:19 246:2	337:1 338:12	481:9 486:15
153:14 155:7	246:20 250:8	342:18 343:1,2	486:17,22,24
155:11 156:5	250:15 251:8	343:4,9,13	486:24 487:3
156:10,11,14	256:7 258:13	350:7 353:24	487:19 488:5
156:17,24	258:16 259:11	357:24 360:9	488:13 489:10
157:3,7,14,18	260:16 261:8	360:14,16	489:13 490:1
158:3,8,12,15	263:9,21	369:12,22	500:12 502:3,5
158:17,21	265:15,19	375:7,18	503:10,16,24
159:1,4,4,7,7	266:3 267:16	378:24 380:14	504:1,5,11,16
159:10,17	268:3,5 269:5	381:7 382:3	505:3,8,13
160:4 163:12	269:10 271:8	383:17 384:1	507:6 510:15
167:24 170:1	277:7,13,18,24	384:18 387:12	510:16 511:17

[cancer - cases]

Page 18

517:3 526:2 care 304:23 68:1 69:2 70:15 368:5 370:9 529:14 531:14 career 230:2 75:8 76:14 381:17 386 531:15 535:21 427:4 100:14 120:11 386:22 388 536:2 careful 250:20 120:19 128:5 392:20,24 cancers 7:8 250:24 140:21,23 393:3,12,14 141:18 148:12 carefully 149:22 153:24 394:2 395:2 155:23 156:2,6 198:21 155:21 160:10 399:8 402:2 158:6 159:11 carmen 8:22 160:14,19,24 403:21 404 227:15 271:12 61:17 62:4 168:13 169:24 407:2 415:2 272:17 325:10 373:24 473:23 170:13 171:22 418:5 430:2 328:8 389:13 carr 6:2 10:16 172:23 182:7 431:7 449:2 483:23 487:4 94:3,16,19 97:1 182:10 187:16 454:22 458 487:12 97:4,5,22 98:2 188:14 191:15 470:4 475:8	:20 :16 4,18 11 13 :5 18
531:15 535:21 427:4 100:14 120:11 386:22 388 536:2 careful 250:20 120:19 128:5 392:20,24 cancers 7:8 250:24 140:21,23 393:3,12,14 141:18 148:12 carefully 149:22 153:24 394:2 395:2 155:23 156:2,6 198:21 155:21 160:10 399:8 402:2 158:6 159:11 carmen 8:22 160:14,19,24 403:21 404 227:15 271:12 61:17 62:4 168:13 169:24 407:2 415:2 272:17 325:10 373:24 473:23 170:13 171:22 418:5 430:2 328:8 389:13 carr 6:2 10:16 172:23 182:7 431:7 449:2 483:23 487:4 94:3,16,19 97:1 182:10 187:16 454:22 458	:16 4,18 11 13 :5 18 7
536:2 careful 250:20 120:19 128:5 392:20,24 cancers 7:8 250:24 140:21,23 393:3,12,14 141:18 148:12 carefully 149:22 153:24 394:2 395:3 155:23 156:2,6 198:21 155:21 160:10 399:8 402:3 158:6 159:11 carmen 8:22 160:14,19,24 403:21 404 227:15 271:12 61:17 62:4 168:13 169:24 407:2 415:3 272:17 325:10 373:24 473:23 170:13 171:22 418:5 430:3 328:8 389:13 carr 6:2 10:16 172:23 182:7 431:7 449:3 483:23 487:4 94:3,16,19 97:1 182:10 187:16 454:22 458	1,18 11 13 :5 18 7
cancers 7:8 250:24 140:21,23 393:3,12,14 141:18 148:12 carefully 149:22 153:24 394:2 395:3 155:23 156:2,6 198:21 155:21 160:10 399:8 402:3 158:6 159:11 carmen 8:22 160:14,19,24 403:21 404 227:15 271:12 61:17 62:4 168:13 169:24 407:2 415:3 272:17 325:10 373:24 473:23 170:13 171:22 418:5 430:3 328:8 389:13 carr 6:2 10:16 172:23 182:7 431:7 449:3 483:23 487:4 94:3,16,19 97:1 182:10 187:16 454:22 458	11 13 :5 18 7
141:18 148:12 carefully 149:22 153:24 394:2 395:2 155:23 156:2,6 198:21 155:21 160:10 399:8 402:2 158:6 159:11 carmen 8:22 160:14,19,24 403:21 404 227:15 271:12 61:17 62:4 168:13 169:24 407:2 415:2 272:17 325:10 373:24 473:23 170:13 171:22 418:5 430:2 328:8 389:13 carr 6:2 10:16 172:23 182:7 431:7 449:2 483:23 487:4 94:3,16,19 97:1 182:10 187:16 454:22 458	11 13 :5 18 7
155:23 156:2,6 198:21 155:21 160:10 399:8 402:1 158:6 159:11 carmen 8:22 160:14,19,24 403:21 404 227:15 271:12 61:17 62:4 168:13 169:24 407:2 415:2 272:17 325:10 373:24 473:23 170:13 171:22 418:5 430:2 328:8 389:13 carr 6:2 10:16 172:23 182:7 431:7 449:2 483:23 487:4 94:3,16,19 97:1 182:10 187:16 454:22 458	13 :5 18 7
158:6 159:11 carmen 8:22 160:14,19,24 403:21 404 227:15 271:12 61:17 62:4 168:13 169:24 407:2 415:2 272:17 325:10 373:24 473:23 170:13 171:22 418:5 430:2 328:8 389:13 carr 6:2 10:16 172:23 182:7 431:7 449:2 483:23 487:4 94:3,16,19 97:1 182:10 187:16 454:22 458	:5 18 7 14
227:15 271:12 61:17 62:4 168:13 169:24 407:2 415:2 272:17 325:10 373:24 473:23 170:13 171:22 418:5 430:2 328:8 389:13 carr 6:2 10:16 172:23 182:7 431:7 449:2 483:23 487:4 94:3,16,19 97:1 182:10 187:16 454:22 458	18 7 14
272:17 325:10 373:24 473:23 170:13 171:22 418:5 430:3 328:8 389:13 carr 6:2 10:16 172:23 182:7 431:7 449:3 483:23 487:4 94:3,16,19 97:1 182:10 187:16 454:22 458	7 14
328:8 389:13	14
483:23 487:4 94:3,16,19 97:1 182:10 187:16 454:22 458	
	:5
/ 487·12 97·4 5 22 98·2 188·14 191·15 470·4 475·9	
407.12 77.4,3,22 70.2 100.14 171.13 470.4 473.0	3
capabilities 435:17 437:11 192:2 193:16 476:3,4 502	2:1
333:15 438:4 452:4,10 202:4 203:16 503:1 506:1	2
capable 224:10 513:10,17 207:20 210:11 513:20 516	:9
265:18 514:7 210:21 211:2 520:15	
capacity 35:7 carries 252:14 211:15 215:4,7 cases 8:6 27	':5
58:10,13,23 carry 311:21 216:1 217:5 27:10 28:1	42:3
65:2,24 68:1 carrying 96:9 218:12 219:19 58:9,13,23	
70:3 73:12,19 278:12 365:5 222:7 228:22 68:15 70:8,	23
87:20 375:12 399:2 229:11 236:2 71:3 90:16	
captioned carryover 237:9 238:14 120:12,15,1	.7
538:6 188:13 238:22 239:4 141:1 144:6	5
capture 129:1 carter 61:20 240:2,19 169:21 172	:14
carcinogen 62:4 208:20 244:23 259:3 173:10 174	:6
99:15 106:22 case 6:24 8:10 268:6 269:9 201:13 208	:13
424:6 478:11	1
carcinogenesis 19:19 20:13 281:11 289:23 328:18 338	:16
135:24 357:11 22:11,23 23:5 291:17 298:9 356:11 380	:13
carcinogenic 26:11 28:1 311:15 319:18 381:18 384	:17
88:18 137:24 34:20 43:9,12 321:6 326:4,7 391:2,16	
138:1 163:11 43:18 55:8 56:8 327:20 329:8 402:16 504	:3
227:10 360:21 58:5 60:16 61:3 332:24 338:11 511:8,17,18	}
390:15 62:6,13,16 342:4 358:7 512:3,9	
63:20 66:23 360:15 367:3	

[categories - chakalos's]

Page 19

categories	135:1 138:11	535:21 536:2	152:15 157:16
23:20 314:10	139:6,6 147:9	causing 224:10	166:11 174:17
category 286:7	155:22 156:2,5	224:20 225:1	176:23 189:12
299:13 314:15	156:11,13,16	445:13 487:18	189:16 207:23
causal 90:21,23	156:19,24	488:5,12	207:23 220:12
91:1 109:1	157:3,7,11	caveat 178:6	222:17 224:15
111:8 112:21	174:7 192:24	cavity 264:4	234:23 235:3
112:22 131:12	193:6,12	cdc 395:13,16	310:23 314:14
132:2 151:2,21	206:24 208:1	396:23	314:14 316:11
153:2 174:20	210:7 215:13	cell 33:19	318:9 320:23
222:16 231:3	222:8,15,21	141:11,21	343:12 467:6
231:14,21	223:7,9 225:3,9	143:24 145:1	476:6 496:12
232:7,9,10	225:12 227:10	156:19 220:16	522:14
233:6,6 251:7	229:12 360:16	220:19 308:5	certainty
256:5 316:22	400:9 414:11	427:20	187:23 405:20
318:11,24	414:20 418:18	cells 220:20,21	406:15 408:16
319:1,10,12,13	419:9 424:14	478:8	408:18,21
329:17 331:20	478:8 480:7	cellular 419:10	409:3,24
331:20,22	488:12 489:10	426:23	410:10 418:18
339:11 340:11	489:13,24	censured	certificate
457:24 458:4	503:10 510:15	455:21,22	539:1
458:20 511:1	caused 6:21	center 190:12	certified 2:21
532:22	159:17 211:3	190:24 191:5	certify 539:5,7
causality 341:4	306:6,16,21	certain 11:12	539:12
causation 140:1	307:2 389:13	21:20 50:9 59:4	cervical 10:5
148:11 150:2,4	390:8 487:4	147:5 161:2	146:16 422:9
150:11 207:19	causes 28:23	196:7 220:12	422:21,22
208:3,10 229:8	29:2,23 31:17	223:21 224:5	500:12 501:23
233:23 311:17	113:2 136:9,21	224:16 227:15	501:23 502:3,5
312:19 316:19	137:7 140:17	236:4 244:13	cfr 11:9
332:7 366:22	141:11,21	244:13,14	chain 419:11
cause 31:20	142:8 146:14	390:13 483:18	chaired 25:20
63:22 81:11	146:21 147:1	485:12	chakalos 61:3
82:4 83:6 89:16	148:14 156:6	certainly 43:24	62:6,16 381:17
90:2 91:16,24	480:19,21	46:20 80:15	chakalos's 62:8
134:11,12	481:9 510:9	92:5 135:16	63:22 65:2

[chance - clarification]

Page 20

			_
chance 109:15	charging 17:14	chrysotile	531:12
126:22 303:11	49:3 60:7	11:11 483:17	cited 40:18,21
303:14 313:19	chart 450:11	483:24 487:5	41:2,9 134:17
313:24 314:12	check 22:19	cigarette	155:18 173:1
314:14,20	23:1	138:21 151:11	194:16 200:10
315:9,14,17	checking	cigarettes	220:2 253:20
356:2	354:13	139:1,6 149:9	254:5,15
change 50:8	checklist	151:7	258:24 273:21
108:14 208:4	112:21 159:20	circle 44:12	273:24 279:24
419:1 491:23	231:14 232:6,9	citation 200:15	280:3 282:15
492:14 537:3,5	233:2	280:4,7,24	282:21 283:3
537:7,9,11,13	chemical 35:2,7	281:10 283:4	333:2,2 354:15
537:15,17,19	139:1	284:10 399:11	397:22 398:19
537:21,23	chemicals	425:5 531:19	399:4
changed 49:12	411:3	citations 386:5	cites 425:6
108:12 213:16	cherry 274:15	397:5	citing 136:5
437:7 452:14	274:16 281:14	cite 99:18 104:5	148:6 282:24
453:5,14	childhood	104:6 117:9	288:15 478:17
changes 42:24	130:18	118:2 119:21	citizen 7:5
419:10 538:9	chobanian	121:24 162:1	244:6 248:24
538:12	190:6	166:15 192:22	249:22 250:1,6
characteristics	chose 122:14	194:3,7,9	251:12 256:15
511:21	234:19 281:20	197:16 198:11	261:18,21,24
characterizati	300:1 518:22	220:7 227:17	262:9 533:5
97:12 231:9	527:4	228:6 229:9	citizens 243:13
261:9 442:7	chosen 263:10	242:23 280:21	525:10,11
471:10	chris 110:1	280:21 283:7	534:4
characterize	118:22 124:2	284:7 289:4	city 4:19
101:14 106:1	202:11 274:5	301:2 303:5	claim 37:22
232:24 280:20	346:6 358:13	321:4,13	210:3
333:14 401:14	359:3 376:14	325:16 340:24	claiming 65:20
characterized	377:13 418:3	340:24 349:6	136:7
101:6 102:22	499:7	349:18 357:15	claims 27:6,11
103:3 474:11	christopher 3:6	358:7 359:24	28:22
charge 17:18	chronic 478:8	391:17 392:3,9	clarification
18:11 71:15	483:23 487:12	399:3 500:14	167:9

Document 33008-56 PageID: 211369

Golkow Technologies, A Veritext Division

[clarified - come]

Page 21

clarified 78:8	clinical 146:10	188:15 237:14	collect 509:6
520:6	409:10	261:6 279:16	collected 172:1
clarify 30:9	clinically	281:13,15	176:21 344:16
228:1 239:1	102:19 103:13	282:7 289:24	504:18
322:16 363:21	378:18	291:17 323:12	collection 236:8
clarke 69:11	clinician	323:15 324:2,6	236:9
class 19:15	146:11 305:7	324:7,10	collectively
24:13,15	307:3	325:14,18	59:24
309:20	clip 93:3 483:3	331:1,15	columbia 2:23
classes 24:18	close 80:5	339:13 367:3,8	539:2,5,22
classified 74:1	259:12,16	367:13,14	column 96:9,10
405:20 406:16	322:9	388:8 402:13	163:7,10,20
408:16	closed 413:20	403:21 407:4	184:17 336:22
classify 440:14	closely 356:3	475:7,22	343:19 344:4
clean 199:13	closer 316:8	cohorts 237:20	371:4 374:9,13
497:15,20	closure 347:12	369:9 387:14	374:14 385:15
clear 27:13	462:6	collaboration	484:5
76:7 87:4	clues 95:22	380:6,8	combination
134:10,24	coaching 119:4	collaborative	47:22 434:11
136:8,17,20	coalition 7:4	77:22 382:24	509:15,19
137:7,13,17	coauthored	collaboratively	519:5
138:3,11,23	75:19,21 80:7	48:9 75:24	combine 78:18
139:11 141:11	107:19	collated 20:21	402:16
141:21 143:24	coauthors	colleague 18:5	combined
144:23 145:1	382:18 384:11	71:6 80:5	115:1 131:24
156:19 239:5	385:16 502:23	colleagues 18:2	326:23 517:11
315:5 330:22	codirected 25:4	49:20,21 50:8	521:9
334:13 353:22	coffee 147:18	51:3,5,23 52:1	combining
369:20 386:11	cogent 260:14	52:14 55:2	402:17 403:22
436:20 440:9	cohort 112:3	68:13 180:10	403:24
494:7 495:5	117:23 128:3,9	189:21,24	come 17:24
clearly 357:1	128:17 160:16	234:20 311:10	33:5 49:1 52:20
358:24 359:1	160:20 161:1	383:2 387:23	89:14 90:3,23
cleavage	169:24 170:13	422:7 428:2	118:22 148:2
206:10	175:14 176:6	476:19 528:4	202:10 206:13
	176:17 177:1		215:15,19
	ı	1	1

[come - concluded]

Page 22

234:1 254:14	commission	comparable	348:21 408:7
310:4 342:21	539:24	303:1 368:7	components
346:6 358:16	committee 25:2	476:7	200:19 232:14
360:11 376:2	36:2,13 243:14	compare 33:21	232:15 314:16
395:1 427:14	267:3,6 525:8	127:8 241:11	320:23
474:4 475:5	533:5 534:4	413:9	comprehensive
479:20 526:15	committee's	compared	203:21 218:14
531:20 534:10	254:6	168:1 391:23	218:23 219:6
comes 125:22	committees	457:7	220:15,23
362:13 496:10	24:24 25:8,11	comparing	240:7 254:23
comfortable	70:2 265:11	144:24 185:11	271:9 272:14
132:24 385:1	266:18	233:11 371:13	360:7 448:5
coming 52:19	common 207:6	375:3	494:1 503:8
220:4	504:11,13	compelled	conceivable
comment 9:1	commonest	133:1	130:12
133:12 214:12	207:7	compensated	concern 95:21
245:5 258:23	communicate	75:1	96:19 97:7
259:1 282:14	79:11 444:10	competing	178:15 179:6
330:12 341:24	444:11	33:21 34:3	226:1 289:13
347:6 358:7	communicated	159:23,24	289:16 316:8
378:7 379:2,14	35:21 37:2 48:6	compilation	442:1,12 443:9
396:7 425:14	191:13	324:5	502:9
532:11	communicating	complete 22:9	concerned
commentaries	216:1 364:21	72:20 122:18	197:13 331:13
236:4	communication	448:5	394:24 494:9
commentary	66:8	completed	concerning
362:16 378:5	communicati	72:18 73:10	499:22 503:22
379:4,5	64:15	218:14	concerns 332:4
commented	community	completely	363:13 439:17
227:18 258:20	268:11 329:12	182:15 299:9	468:2
355:15 371:22	364:2 428:3	387:22 453:16	conclude 166:4
514:7	435:6	476:18 525:4	177:21 182:24
comments	company 34:23	complex 366:11	183:21,24
129:14 251:2	35:2,7	463:14	concluded
commercially	company's	component	101:5 185:3
207:8	35:10	139:1 261:12	208:4 306:14

[concluded - considered]

Page 23

_	icicuj		1 ugc 23
410:8 455:10	conducting	confirm 256:5	conjunction
480:7 536:17	317:12	confirms 375:4	318:10
concluding	conference	496:12	connecticut
78:13	36:3 91:8,11	conflict 196:2	18:19
conclusion 99:4	93:8,15 96:2	212:9 380:23	connection
99:7,18 105:7	97:18 129:14	383:5,13	16:6 17:4 19:2
105:19,20,24	192:12 435:17	384:14 528:15	20:12 30:15
105:24 106:2,8	436:12 437:6	528:19 529:12	46:2 89:7
106:16 107:1	451:15,19	conflicting	219:18 221:13
128:17 134:22	confidence	441:23 442:10	427:6 477:19
139:24 142:4	102:11 164:4,6	confounder	528:20 529:7
254:14 329:19	164:19 167:24	113:17,20,23	consciously
336:6 360:11	168:8,11 181:9	114:4,7,9,17	298:19,22
375:4 399:23	184:12 186:14	130:14,20	consecutive
400:4 473:12	188:2,5 233:20	confounders	518:2
485:24	259:11,15	113:11 114:20	consensus
conclusions	260:5 280:16	130:7 316:4,7	79:22 361:10
41:4 116:2	290:15 297:15	442:8 448:2	362:19
206:20 220:13	302:15,23	confounding	consider 23:12
311:17 335:18	303:7,10,13,15	85:24 111:19	40:14 122:17
366:9 384:6	304:6 312:10	112:5,8,10,11	197:3,6,7,10
478:24 517:20	312:10,11,12	112:13 113:6,8	308:8,10,13,14
conclusive	313:6 314:3,7,8	113:14 129:23	335:13,15
251:6	317:24 327:15	229:21 233:16	375:20 503:15
conclusively	327:22 328:2	258:14 314:12	considerably
246:21	330:6 335:4	314:13,14	408:9
condition 25:18	347:21,22	315:21 316:9	consideration
conditions	348:15 364:10	316:17 319:24	113:12 197:11
11:12 95:23	364:11 367:23	328:7 461:9	229:19 251:1
483:18	372:21,22	confuses	256:13 434:5
condoms 415:3	373:3 374:24	315:23	considerations
415:10,21	375:2 388:4	confusing	99:12 106:12
conducted	401:10 403:12	294:4 403:17	106:19 490:20
168:14 205:14	410:1 457:17	confusion	considered
502:16	495:16,24	294:23	77:14,18 103:9
	504:4		113:22 193:22

[considered - continues]

Page 24

	. <u>.</u>	25.5	
213:24 215:6	consortium	35:6	contaminated
229:7 233:9,16	6:14 265:8	contact 66:21	225:4 478:11
258:12 313:14	280:6	67:13 72:1 97:2	contamination
407:10 418:15	constant	97:5	183:16 201:17
418:15 472:17	131:12	contacted	206:7 207:16
490:17 500:24	consult 29:17	36:17 38:24	207:18 223:14
501:4 509:7	34:23 71:11	40:2 43:17	226:1 227:3
considering	consultant	44:10 45:1,5,6	354:10 429:4
115:17 166:12	29:17 35:2	56:7,8,10 58:4	431:21 464:4
316:6 321:12	58:23 59:20	58:8,12,20,22	482:3,8
321:17 388:7	64:20 68:1	59:20 67:21	contend 277:5
455:11 462:5	73:20 380:13	89:16 90:4 95:2	277:15,22
consistency	381:6,10,12	191:24 219:23	278:2,24
84:8 85:6,21	382:9,15	237:20 252:9	279:20
143:23 229:17	383:19 384:1	269:2,7 329:8	content 215:19
235:2 318:8	384:16 455:2	396:20 428:16	contention
367:3,6 388:15	465:4,12,22	464:13 511:18	262:18 263:8
443:16 458:21	529:13	contacting	268:2 280:8
459:15 461:13	consultation	57:24	290:21 291:12
consistent 87:8	28:3,8,21,22	contain 205:3,4	291:24 356:12
102:11 125:15	29:6,13 30:3,6	481:13 485:11	contested
132:2 142:17	30:10,16 31:6	507:19	234:20,22
143:8,15,20	32:11 60:8	contained	context 32:11
144:9 155:9	65:17 528:20	15:17 98:2	95:1 232:16
259:4 302:13	529:6,20	108:4 226:24	274:16 275:18
336:2 339:12	consulted 22:2	507:10,15	337:24 402:9
348:19,20	27:4,9,22 306:5	containing	405:6 458:11
400:5 403:20	381:24	246:18 480:7	continue
423:6 461:7	consulting	480:21 485:10	120:20,21
521:10	16:18 21:17	487:17 511:22	214:21 367:19
consistently	26:24 41:24	contains 197:18	418:17
102:7 144:22	42:1 65:2,23	198:13 314:3	continued
169:3 226:17	66:5 381:16,21	424:5	120:12 218:4,7
consisting	383:3 465:3	contaminant	continues
253:19	consumer 4:15	222:18	120:22 347:23
	5:23 6:1 10:15		
	1	I .	

[continuous - correct]

Page 25

-	-		2
continuous	402:13,16	coordinating	37:1,4,16,17
516:8	403:21 404:5	513:4	38:16 39:22,23
contraceptive	407:2 430:7	copied 362:1	43:7 44:21 48:5
456:4	442:7 449:14	497:6	52:21 53:8,20
contract 411:4	475:8 476:3,4	copies 20:14	53:24 54:3,9,10
411:4	483:15 502:1	351:18,23	57:22,23 62:13
contrary 299:3	503:1 506:12	420:3,7,10	62:14 68:4,10
contrast 168:8	516:9	copy 42:7 72:24	68:22 74:7,8
contribute	controlled	74:11,15 76:12	75:2,3,5 81:1
258:13 422:21	408:8	162:20 343:21	82:2,7,16,20
contributed	controlling	351:8,13 421:3	83:7,21 85:14
305:24	115:18 319:18	421:3,8,15,19	86:3,10,15 88:5
contribution	321:21	421:22 425:21	91:5,17,20
236:22 388:10	controls 8:6	425:24 437:10	93:21 94:15
388:14	120:12,15,18	474:22 475:1	99:19 100:17
control 10:7	172:14 173:11	483:2 496:23	101:20 103:5,6
11:13 100:14	328:4 338:17	497:2,12,20	103:9 104:2,3
115:2 120:11	351:1 352:21	498:7 499:10	104:10,17,18
120:19 128:5	354:22 355:18	516:22	104:23 106:23
140:21,23	356:5,24	cordial 70:4	109:5 111:13
160:14,19,24	391:16 511:8	corn 81:14	111:20,23,24
168:13 169:22	511:17,19	506:21 507:20	112:5 113:15
169:24 170:13	512:4,9	507:21,22	113:21 114:5,6
171:22 172:23	convened	508:14,17,17	114:10 115:5
182:10 188:14	435:22	corner 95:10	115:15 116:12
237:9 259:3	convenient	124:22 125:10	117:11 118:4
279:15 289:23	364:20	285:11,22	118:16 120:6
291:17 319:3	conventions	352:7	121:16 122:3
326:4,7 328:4	364:20	correct 17:16	122:10,24
328:12,13	converse	17:17 19:13	125:20 135:1
338:11 342:4	208:20	20:17 22:12	136:9,21
350:16 352:9	conversely	26:6,9 28:10,11	149:13,21
352:16 356:11	385:17	28:15,18,19,24	153:2 162:2
367:3 368:5	convey 436:16	29:2 34:21	163:14 164:8
370:9 386:22	conveyed	35:14,15 36:18	165:1,12,17,20
388:16 399:8	366:12	36:21,22,24	166:6,16

[correct - correct]

Page 26

169:18 172:4,5	290:13 295:4,8	361:5,14,15	460:10 461:13
172:16 173:13	295:24 297:16	368:14,15,23	461:22 462:14
173:15,17,23	297:17 298:16	369:13 370:1	462:23 463:6
174:2,11,13	299:19 300:3,7	370:16,23	464:7,17 465:5
175:15 176:15	302:11 303:6	371:15 372:6	465:9,13
178:12,15	303:12,23	379:15,21,22	469:17 471:21
179:7,24	304:19,24	380:15 381:9	472:10,11
180:10 181:12	305:3,4,6,9,10	382:3 383:7,15	473:3 476:12
182:12,13	305:13,17,18	385:9,21 386:2	477:16,20,21
183:2 184:5	306:1,7,17,22	388:19,23	478:12,16
185:3,13 187:1	307:2,5,6 308:6	389:10 396:23	479:3,6 481:13
188:20 192:16	308:17,18,19	397:2 399:14	481:24 482:1
192:17 195:4	308:20,22,23	402:18,18	486:23 490:1
197:20 198:14	309:1 313:15	404:1,3 405:16	490:22 494:10
204:9 205:15	313:16,19	405:22 409:19	494:11,14
205:24 211:12	314:5 315:24	410:10 411:22	497:5 500:15
211:13,15	316:4,10,19,20	411:24 415:3	504:19,20,23
212:1 213:1,13	316:22,23	416:6 425:7,8	506:23 507:3
213:24 220:21	322:7,21	425:15 429:4,7	507:11,12
220:22 230:21	324:13,16	429:18 430:4,9	508:24 509:1,4
231:14 233:14	326:6,21 327:1	430:11,12,22	509:13,14,23
234:8,9,12	327:11 328:1	431:4,5,12	510:2,5,8 511:3
235:9 242:1	328:13 330:10	432:4,8 434:15	511:11,12,23
244:8 247:4	332:24 333:9	434:16 435:2,8	511:24 512:13
248:11 250:8	333:10,11,12	435:19,23	512:14,23
255:4 261:9,10	334:18,19	442:18 444:7	514:11 515:1,6
264:17,21,24	335:9 338:2	444:11,20	517:4,9,10,13
265:11,15,16	342:4 343:7	445:7,14 446:4	517:21 518:20
266:19 268:14	344:10 346:18	446:16 448:7	521:11,12,13
268:15 269:20	346:21 347:2,3	449:1,17 450:5	522:10,24
272:8 278:21	347:18 349:8	450:22 451:5	523:23,24
280:23 283:21	349:20,21	451:11 452:5	524:4 525:1
284:12,15,18	350:7 351:1,2	453:20 455:12	529:22 530:8
285:8,13 286:9	352:17,22	455:16 456:18	530:19 531:8
286:10 288:19	353:8,10	458:5 459:9,17	531:15 532:7
289:2,6 290:4,8	357:18 358:8	459:18,24	532:13,14

Document 33008-56 PageID: 211376

[correct - cysts] Page 27

		T .	
533:22	237:21 252:9	539:4	critical 9:10
correcting	269:3,8,14,16	covariate 371:8	398:17,18,18
276:10	329:8 360:5	503:14,20	399:4,9 408:6
corrections	417:14 418:24	covariates	crr 1:23 539:21
538:9	425:6 428:1	447:21	ctisi 3:10
correctly 96:21	429:14 433:22	cover 14:10	cumulative
96:22 99:16	435:4 440:12	43:16 76:18	120:5 122:13
132:8 136:3	447:9 457:22	coverage 168:5	400:23 517:12
143:11 160:19	460:16 461:21	covid 66:10,17	current 16:14
160:20 178:2	463:23 464:24	cramer 5:19	23:15 43:1
246:24 251:10	466:14 467:7	10:23 68:4 71:1	47:15,19 57:7
256:10 258:17	469:10 470:16	71:5 117:11	171:21 270:3
258:18 274:1	478:23 489:8	120:3,10	329:15 330:8
275:6,19 319:6	500:20 513:13	121:15 123:3	339:15 340:22
337:6 364:3	513:16 515:10	158:13 180:10	currently 23:21
375:9,11,23,24	515:16 516:11	180:24 322:7	23:22,24 24:4,5
381:8 407:7,15	524:11 531:2	322:11,21	24:12 25:1 27:3
410:5 435:12	539:13,15	428:23 454:13	37:11 42:1 43:6
correlative	counselors	454:17 455:2	400:7
8:11 352:9	266:21,22	522:14	curriculum
cosmetic 6:23	counterfactual	cramer's 118:8	5:12 42:19
34:23 35:1,11	154:12	121:5 385:23	77:12,12,13
35:22 36:14	country 223:22	create 148:9	curtail 453:15
250:16 466:15	265:18 441:6	created 164:14	curves 133:8,11
533:11	441:11 442:17	516:7	customary
cosponsored	couple 47:14	credibility 87:3	95:23
91:5	245:13 285:15	458:23	cut 153:22
cost 19:17	317:6,15	criteria 229:6	154:3 187:7
cote 69:15	406:21 487:14	230:24 231:3,5	312:7 526:18
counsel 38:24	course 30:2,5	231:9,20,20,24	527:21
40:3 74:6 75:8	130:5 310:1	232:2,23 233:5	cv 25:20 42:8
75:15 89:17	418:11 427:3	233:22 234:7	76:22,24 77:2,2
90:4 95:2	courses 26:2	245:2,5 254:2	264:19 311:2,5
105:20 106:5	court 1:1	310:11 317:3	311:11 342:19
180:22 193:17	275:12 482:11	458:20	cysts 137:21
219:24 237:21	520:15 527:8		358:2 456:10

[d - del] Page 28

		I	
d	317:21 319:2	166:16,22	declared 253:5
d 12:1	319:16 323:1,2	167:10 169:16	decrease
d'aloisio 421:1	329:20 334:19	day 151:7	189:18
daily 129:17	337:12 342:4	412:11 416:13	decreased
188:23 189:12	344:15,16	461:22 505:24	390:2
287:1 386:17	347:16 366:10	532:9 538:15	deem 312:13
408:1 416:4	366:10,15	days 535:14	deemed 406:23
435:1	370:15,21	dc 2:17 3:17	defendant
dairy 147:19	387:16 397:22	52:18,20,20	204:2
dana 343:1,13	398:16 399:5	53:8	defendants
394:7	400:8 401:15	dealing 433:9	4:14 214:13
daniel 68:4	416:5,8 431:16	dealings 38:18	491:12
180:10	486:14 496:1	death 173:4	defending
data 9:4 35:10	504:17 509:5	decade 201:18	382:11
39:7 87:21,24	519:6 521:8,9	decades 129:18	defense 55:7
116:12,14	521:16,17,23	130:17 150:6	201:20
120:14 121:7	522:9	152:10,14,18	define 27:19
123:7 132:11	date 43:4,21	152:19,22	153:16 154:3
153:11 163:13	55:16 56:22	188:24 226:13	186:12
171:21 172:1	74:17,21,23	407:24 464:16	defined 517:5
176:4,5,14	99:13 106:20	december 7:2	defining 187:16
233:3 236:8,8	158:22 164:14	11:8 477:15	definitely 85:15
236:12 237:5	165:4 170:2,15	decide 359:16	415:5
251:6 262:10	185:5 216:7	decided 176:1	definition
265:5 268:13	443:4 446:7	deciding 447:20	113:5 187:17
279:16 284:15	539:10	decision 146:10	187:19 364:13
284:17,18	dated 42:9	236:23 254:13	definitive 211:7
285:12,16	44:15 49:16	254:19 298:19	definitively
286:2,4,9,12,14	74:9,11,13	298:23 341:3	211:7 332:7
286:23 287:3,4	332:15 482:23	463:14 520:11	degree 378:14
287:6,8 289:24	dates 44:24	decisions	400:24 402:6
291:18 296:10	72:15	265:22 378:19	403:8 404:13
297:15 298:23	daughter 307:6	declaration	418:17
297:13 298:23	307:8,14	196:2 538:1	del 8:22 373:24
, , , ,	davis 6:14	declare 519:20	473:23
308:11 310:5,6	122:1,4,11	538:4	
		1	

[deleterious - diagnosing]

Page 29

deleterious	depletion 325:3	describing	determine
347:10	505:6	252:17	207:12 251:18
delivery 223:8	depo 54:1	description 5:9	253:21 254:6
demonstrable	deponents 13:1	10:2 322:23	254:18 273:19
375:5	deposed 14:24	486:6 487:9	315:14,16
demonstrate	deposited 478:7	design 258:11	316:14 364:11
87:7 125:14	deposition 1:12	408:6 449:3	448:11
259:4	2:11 5:8 10:1	designate 15:20	determined
demonstrated	12:16,19,22	designated 22:3	233:24 244:16
246:21 461:3,6	14:16 15:11	26:12 43:12	246:1 332:7
denial 7:5	16:3 42:9 43:9	62:12 64:13	determining
244:6	51:16,17 52:1,5	69:2 88:17	159:15 310:9
denise 1:23	52:12 53:22	201:24 210:21	310:11 312:16
2:20 14:3	54:5,13,15,18	454:7	364:8,8
526:16 539:3	54:23 235:8	designation	develop 30:2,11
539:21	471:6,11	5:13 60:24 61:2	30:14 32:22
denying 251:5	477:20 530:15	61:8 76:10	33:2 310:4
deodorization	536:17 538:6	designed	developed 30:5
431:22	538:10	128:18 140:20	30:24 31:1,4,6
deodorizing	depositions	141:3 144:3	32:6,10 375:17
430:21 431:19	41:10 274:10	161:6 178:7	390:22 505:3
507:5,6,10,11	deposits 485:9	179:2 182:16	developing
507:14,18,19	derive 116:14	despite 84:8	149:12 153:13
507:23 508:12	derived 405:15	85:6,21 231:2	development
508:16 509:15	408:14 486:24	324:6 387:13	305:24 505:8
509:16,18	describe 42:21	409:2	device 35:6
department	310:3 409:17	detail 529:1	devote 24:10
25:21	409:23 458:4	detailed 439:13	devoted 25:12
dependent	described	details 309:10	dhhs 7:3
446:1 516:6	106:13 286:3	detection	diagnosed
depending	320:8,22 338:1	241:14	282:5 389:13
266:8	423:7	determinant	390:8,21 392:6
depends 160:22	describes 109:4	229:7	diagnoses 11:7
161:4 184:21	285:11,12	determination	478:1
186:12 188:4	422:14,15	392:18	diagnosing
268:7 512:4			305:5,8
	Gollrow To		

[diagnosis - discussion]

Page 30

diagnosis 176:8	317:9 320:7	directly 17:7	discourage
182:7	326:24 327:7	35:21 152:23	434:24
diaphragms	340:19 341:8	372:23,23	discuss 52:12
154:23 415:2,9	367:17 369:17	423:3	75:11 78:20
415:20 423:3	373:2,6 382:6	disagree 31:7	112:9,12
dichotomous	410:3 418:11	31:10 107:6	113:14,20
153:19 297:18	495:7,12	290:7 336:5,8	114:3,9,15,19
312:7	497:12 532:18	348:13 364:5	118:13 161:9
dichotomy	533:15,18	386:8,9 407:17	234:6 281:21
189:11	534:3	407:18 470:21	359:20 414:15
differed 511:20	differential	471:10	415:5
difference	172:22,22	disagreed 364:7	discussed 44:9
169:17 185:17	173:20 338:18	disagreement	114:23 193:15
328:10 344:9	338:19 386:20	79:19	220:24 261:23
344:13 346:15	450:1 511:7	disagreements	273:20 341:13
347:1 370:21	differentially	79:21	343:3 404:15
371:8 372:5,20	449:14	disagrees 525:1	414:14
512:9	differentiated	disclose 212:9	discusses 118:3
differences	511:20	383:4	discussing
371:18 374:23	differently	disclosed 21:21	215:24 219:2
404:18 414:1,4	20:21 172:14	60:14 499:23	228:8 349:7
different 17:18	173:10	520:3 535:5	350:10
38:7 47:21	difficult 219:11	disclosing 22:2	discussion 18:7
89:23 90:12	difficulties	disclosure	49:4,17,19
102:2 114:1,13	439:12	21:17,23 22:15	50:10,12 57:12
115:9 123:22	dig 432:14	22:22 60:15	57:15 63:1 72:3
153:5 154:8	digest 257:6	196:2 380:24	96:15 117:5
162:18,20	diminish	383:5,21	134:18 161:8
185:13 219:13	373:12	384:15 519:12	182:2 200:2
228:5 243:7,9	direct 415:6	519:15 528:16	322:24 337:13
250:11 252:7	417:15 486:16	528:19 529:4,6	338:6 360:4
261:14,15	directed 25:3	disclosures	369:5 400:16
291:11 297:21	343:16	520:8,9	400:19 401:19
297:24 299:8	directing 378:7	discounted	401:21 416:17
300:5,10	direction 384:9	388:2 476:22	427:15 432:9
305:14 314:16	387:1,2 404:8		458:15,18

[discussion - dosage]

Page 31

- 8	-		- 1.6
493:10,13	doctor 62:1	194:22 204:9	530:13 531:7
497:7 533:21	110:2 114:13	205:20 242:17	531:11 532:5
discussions	117:16 119:8	245:20 246:9	documented
75:14 118:20	119:19 139:23	248:20 249:5	78:11 159:20
disease 113:3	161:12 167:5	257:15 258:2	501:22
131:15 312:17	191:9 205:9,11	264:14 270:5	documents
312:23 319:5	218:11 249:12	272:8 276:2,7	5:10 15:10,13
320:10 331:7	252:20 255:24	279:5 281:18	16:9,10 45:17
405:4 502:7	257:2 264:15	284:4 285:3	45:18,20 46:2
disorder 31:17	275:20 293:7	287:9 288:22	46:18 47:4,11
disorders 23:23	342:16 353:1	289:22 292:15	127:7 217:10
28:5 29:4 31:24	353:10 355:15	296:18 326:15	238:15,16,18
32:24 33:10	358:5,21	328:23 332:17	238:21 239:16
disproving	359:24 418:3	335:10 340:4	239:24 240:8
475:15	426:24 427:3	341:21 344:11	240:18 268:2
dispute 96:23	432:24 510:21	345:1,4,15	274:18 275:17
147:16 168:15	doctoral 378:14	350:1 352:23	481:8 535:12
168:17 271:13	doctors 262:7	353:2,9,11,13	535:16
271:17,23	266:3,12	353:15 354:3	doing 21:22
272:1,6 277:20	267:17 268:5	354:11 361:18	38:10 40:1
410:22	290:22 291:14	361:21 363:18	44:12 45:4,7
disputed 290:6	292:1,3,4 374:4	365:16 368:18	46:12 73:24
dissertation	document 20:2	373:16 379:6	91:2 99:2
334:1	42:13,14 50:18	380:2 381:2	116:13 144:7
dissimilar	60:21 61:1,9	398:3,9 399:6	176:1 197:12
219:14	66:1 73:3 76:15	401:22 406:1	235:11 257:21
dissociate 225:2	83:16 92:17	421:12 429:23	274:14 275:14
distorted	93:24 94:1,5	432:20 437:15	301:16 307:13
172:15 173:12	98:7,8,11,13	443:22 454:8	348:12 359:11
173:17	107:3 112:15	467:18 471:1	380:20 381:11
district 1:1,2	115:8 116:4	477:11 481:1	382:14 385:1
2:23 539:2,5,22	129:21 133:24	482:20 489:16	401:24 417:15
divided 77:21	161:13,19	491:4 502:14	477:18 494:5
dobner 1:23	162:5 163:17	508:7,11	528:20
2:21 539:3,21	166:23 171:4	521:19 523:3	dosage 347:18
	180:3 189:4	525:3,4 526:8	

[dose - due] Page 32

dose 33:6 84:10	doubled 527:14	104:19 107:6	452:4,9,10
85:10 87:5,6,8	doubt 216:10	108:5,11 109:5	454:13,17
87:22 88:1	douche 11:5	111:6 116:4	455:2 459:5
109:7,14 111:7	477:24	117:2 126:15	465:21 466:1,2
111:19 115:5	douching 10:3	126:21 127:11	466:3 467:6,8
115:13 116:10	158:16 422:8	128:1 129:4,15	467:23 468:9
117:8,10 118:3	447:6,11 448:6	130:4 131:10	469:12 470:10
118:10,15,15	448:7,12	131:22 132:11	470:17 471:3,5
120:15,20	500:10 501:22	134:8,17	471:8,19,24
121:15,22	502:2,5,18	135:17 158:13	472:9 473:22
122:1,9,23	503:9,14,15,19	170:20 171:9	473:23 474:9,9
123:11 125:13	503:24 504:11	180:10,24	474:10,11
125:15 126:1,7	504:13,14	190:17,23	475:4,6,13,14
126:8,11	downgraded	191:14 193:20	476:17,19
127:13 131:4	408:18,21	193:23 196:8,9	477:2 478:24
133:10 150:17	dozens 404:4	196:22,22,23	479:2 499:20
166:2 225:7,19	442:15	197:18 200:16	499:20 500:6
229:17 234:24	dr 12:11 13:14	201:1 203:15	506:10 519:9
259:18,20,22	13:15 14:15,20	203:16 204:8	520:13 521:16
259:23 260:1	20:11 23:6,8	204:13,13,18	535:3
280:2 322:24	42:7 44:8 50:11	205:2,6,14,22	dr.p.h. 5:17
331:9 335:8	54:7,9,18 55:6	212:21 229:3	draft 49:17
338:2 348:10	56:9 57:2,16,24	320:22 334:11	50:11
369:20 433:3,7	66:22 67:14,20	335:22 354:18	drafts 48:11,14
434:5 446:20	68:4,21 69:4,7	368:9 371:21	78:10
455:10 457:6	69:9,11,15,17	372:4 381:5	draw 517:20
458:22 459:15	69:19,21 70:6	382:19,22	drawn 366:10
462:4 471:18	70:12,21 71:1,5	385:10,16,20	drive 512:16
472:1,16	71:5 72:4,12,17	385:23 386:14	driver 169:17
486:11 490:21	75:5,8,11,12,23	387:4 388:17	dropbox 535:13
491:19 496:19	77:4,5,13,21,23	391:11 393:16	drs 373:24
498:15,22	78:3,6,8,17	417:16 419:19	385:5
516:16 517:12	79:1,5,11,24	419:20,21	drug 436:4
519:2	80:6,8 98:10	422:7 428:23	due 48:20 49:9
double 527:14	99:3,22 100:13	438:8,9,20,20	286:5 303:11
	101:11 104:2,9	440:11,14	303:14 313:18

[due - endometrium]

Page 33

[duc chaometru	,		1 uge 33
313:24 407:1	432:2 477:24	375:19 386:21	embedded
407:24	earn 17:6,11	410:2,2,4	358:1
duly 12:5 218:5	easier 14:3	478:10	emerges 129:7
539:6	eastern 1:16	effectively	emphasis
duplicated	2:9	138:8	412:17
443:17	editor 82:19	effects 254:9	empirical
duration 120:5	83:1 97:2 369:1	300:12 424:5	385:17
122:12 151:1	370:4 371:22	486:15,22	employed 35:5
151:20 154:17	378:5 379:9,13	efficient 46:9	35:17,19
339:16 340:23	379:18,20,23	46:16	229:11
369:21 386:19	380:3,10	effort 428:2	employee 452:4
498:12,18	381:14 431:10	egilman 196:8	470:6 539:13
516:15 517:8	465:1 473:9	196:9,22	539:15
517:12 518:19	474:15 514:6	eight 390:11	employer 16:14
519:3	528:16	either 48:9	encloses 219:16
dusted 415:2,2	editorial 7:12	155:16 157:5,9	encompassing
415:20,21	275:22 276:15	203:17 215:5	487:3
dusting 337:2	363:13,16	224:3 236:13	encourage
337:17 508:13	373:19	255:21 337:4	67:15
duty 291:22	editors 82:24	374:3 387:1	encouraged
e	edits 48:2,6	395:17 446:7	71:7
e 12:1,1 79:12	educate 428:2	475:15 484:12	encouraging
79:14 397:3	education	elaborate 50:9	255:21
earlier 29:19	42:22 204:16	electron 8:12	ended 66:5
41:23 54:19	447:5	elevated 186:13	347:24 428:24
135:17 145:4	edx 352:9	eligible 511:16	508:22
152:9 229:14	356:17	511:17	endometrial
290:11,19	effect 86:12	eliminate	146:21 510:15
314:4 321:11	129:7 163:12	502:20	endometrioid
346:20 380:19	164:23 165:10	eliminated	143:24 145:1
391:14 416:12	165:19 172:24	182:10,15	156:17 157:23
510:4 529:1	175:1,10	eliminating	endometriosis
532:9	176:11 184:20	363:16	156:16,19
early 11:5	185:1 208:9	embed 137:20	157:22
130:17 235:7	256:7 300:17	456:10	endometrium
	347:10 368:4		510:16

[endorsed - estimate]

Page 34

endorsed	environmental	434:2	error 282:23
362:17	480:2,15	epidemiologi	283:2 284:9
engines 235:13	483:13 489:12	318:21 319:1	291:5 319:2,11
england 120:11	epa 214:19	375:19	319:16,19
enhance 511:9	215:11,21	epidemiology	402:12,23
enhancing	217:3 480:2,4	6:9 23:14,16	403:14,20
366:16	483:14 485:11	24:17 25:5,21	404:2,7 450:2
enrolled 182:17	530:20 531:11	80:20 131:13	errors 172:1,2
325:8 505:4	531:24 532:6	177:22 255:5	361:12 402:15
ensuing 96:15	533:15	309:24 310:2	402:18
enter 419:10	epi 47:15,16,21	311:21 320:16	escalina 208:19
423:4	47:23	333:18,19	especially
entire 29:3	epidemiologic	343:2 378:14	59:18 85:23
97:16 107:1	6:4 9:5 11:1	439:12 442:5	87:10 108:6
181:19 187:10	31:23 34:19	473:20	115:23 125:17
275:4 427:4	98:11 111:9	epithelial 6:12	168:14 177:24
538:5	177:24 206:18	7:18 8:2 140:7	322:1 402:9
entirety 87:14	207:14 220:4	140:13,24	511:8
200:17,22	308:11 312:5	141:8,16,18,24	esq 3:6,15 4:5
221:12 235:24	313:8 314:20	145:7,20	4:17
entitled 359:1	315:8 320:19	148:12 181:7	essential
361:18 383:24	330:9 397:24	184:2 186:11	366:14
454:11 477:23	424:24 438:10	186:18,24	essentially
506:12	441:22 442:9	227:15 261:8	231:13 281:6
entity 41:14	511:2 513:21	290:12 334:7	364:13 392:17
192:23 211:15	519:1	418:19 478:8	516:16 533:14
entries 47:9,14	epidemiologi	equals 129:7	establish
48:1 50:2,14	171:17 256:5	168:7	329:17
53:21	329:16 330:4	equated 49:10	established
entry 45:16	330:21 486:15	equating 138:2	159:12,14
48:15 49:16	epidemiologi	erin 28:17	363:12
50:20,24 51:15	376:17	errata 537:1	estimate 164:3
52:11 54:17,21	epidemiologist	538:11	164:5 187:19
54:23	38:3 138:6	erroneous	188:7 233:15
environment	148:1 241:16	314:12	233:19 260:7
356:22	333:15 427:4,8		299:17 303:16

[estimate - excerpt]

Page 35

-			
312:9 313:5,9	196:18 241:15	135:9 137:18	357:9,10 479:1
316:15 318:1	427:6	157:15 166:5	exactly 50:1
389:17 410:2,3	evaluated	169:10 199:9	59:5 142:19
462:20 486:16	140:6 172:21	203:3 207:15	288:1 301:11
estimated	176:18 245:3	222:2 227:3,14	462:12 475:20
104:13 183:8	266:14	244:20,24	494:23 515:21
371:7,10	evaluates	245:7 248:5	examination
372:24	266:23 267:6	251:6 254:13	5:2 12:4,8
estimates 133:6	evaluating	254:20 259:18	218:4,7 274:21
172:15 173:11	197:4 236:13	259:20 266:12	417:15 418:1
173:21 177:22	277:12 382:16	271:10 272:15	500:3
298:3 303:4	416:9	321:12,23	examine 458:18
330:5 366:24	evaluation 38:4	322:5,20	examined 12:5
367:10,13	40:13 92:4	329:16 330:9	87:10 125:17
386:7,21 388:3	113:10 145:3	330:21 331:18	218:5 338:12
389:16 401:2,7	248:6 312:5	336:24 337:9	examining 8:21
402:7 403:10	317:20 399:10	341:2 354:9	example 19:12
448:12 475:23	400:6,7 409:4,8	357:1 375:22	53:23 134:13
486:23	evasive 183:9	385:17 397:24	140:21 214:18
estimating	evening 53:13	405:15,20	214:19 216:4
178:21,23	53:15	406:15 408:9	216:17 233:7
estrogen 158:6	event 70:5	408:14,21	234:10,14
et 5:19 6:6,10	129:17	409:5 410:8	236:2 282:6
6:14,19,24 7:17	events 22:6	414:12 416:23	420:14 429:20
7:20,22 8:3,7	68:12 419:12	427:6,7,21	444:17
8:12,19 9:8,13	478:10 511:9	432:9 439:20	examples
10:6,13,23 11:3	everybody	443:12 459:6	200:11 339:3
11:7 43:10	149:9,9 528:6	459:16 467:23	exceeds 21:19
98:10 282:15	evidence 8:22	468:8 470:4	except 86:4
282:21 516:7	9:6 31:19,22	471:24 472:16	201:15 443:4
etiological	41:18 57:8	473:2 488:19	509:14 520:5
148:8	73:17 89:3,5,7	498:15 513:21	538:9
etiology 230:13	99:13 106:20	525:16 534:6	exception 111:8
230:13 255:6	108:9 115:17	evident 115:22	431:10
evaluate 22:7	115:19 117:18	exact 43:20	excerpt 253:13
34:2 38:3	121:21 134:20	135:23 137:4	

[excess - expert]

Page 36

[caecos capert]			1 450 30
excess 300:21	20:3,5,7,10	349:23,24	existing 48:13
330:24 331:15	42:6,13,15,18	350:2 351:7	153:11 236:12
335:2	44:13,19,23	361:17,17,22	273:23
excessive	45:15 47:1 49:8	363:1 368:17	exists 93:11
348:18	60:19,22 66:2	368:19 373:15	112:22 232:10
excited 176:24	76:4,5,8,12,16	373:17,19	316:3
excluded	77:6,15,18	379:5,7,18	expand 402:13
324:23 504:3	80:23 83:14,17	398:2,4,7,10	expect 150:19
excludes 456:1	83:19 92:14,14	399:3,4,12,12	184:23 202:6
excluding 126:4	92:18,22 94:2,6	399:17 421:6	214:22 367:10
126:6 281:13	94:9 98:10,14	421:11,13	expenses 19:8
433:4	98:23 100:7	425:24 426:3,4	experience
exclusion	104:20 116:3	429:21,24	42:22 204:16
289:14,18	126:14 161:17	432:19,21	261:17
exclusive 216:5	161:20 166:21	437:14,16	experiences
excuse 344:17	166:24 167:12	443:18,23	71:2
361:24 449:23	171:3,5,8 180:2	454:1,2,4,9	experiment
executive 6:3	180:4 188:11	467:11,19	234:11
78:12 99:8,9	194:20,23	469:7,17	experimental
105:9,18,21	195:20 212:23	470:17 471:8	329:15 330:11
106:1 142:12	245:18,21	474:12 477:5,6	expert 1:12
142:19 155:2	247:20,21	477:12 482:10	2:11 5:15 16:11
323:3	249:4,6,12,15	482:21 496:18	16:20 17:7,11
exhaustive	250:18 251:24	497:13,19	22:3 26:12 28:7
222:4	252:12 268:20	506:10 508:2	37:22 38:8 39:1
exhibit 5:10,11	270:2,3,6	510:18 516:20	40:8,21 41:2
5:12,13,15,18	275:21 276:3,8	529:24 530:2	43:12,13,18
5:20 6:1,4,7,11	276:11 277:17	530:15,18,21	44:11 45:2 49:5
6:15,18,21 7:1	277:19,24	exhibits 5:8	54:11 56:7,11
7:3,7,11,13,18	278:10 285:1,4	10:1 41:9 67:10	57:3,6,10 58:1
7:21 8:1,4,8,14	296:16,19,21	77:11 124:16	58:3,5,7 60:14
8:17,20 9:1,4	296:24 297:3	276:12 500:5	62:13,15 63:20
9:10 10:3,7,12	326:14,16	exist 203:9	64:13 66:22
10:15,18,21	327:2 332:16	231:5 427:17	67:14,16 68:2
11:1,4,9 15:21	332:18 341:20	existed 203:8	68:15 70:7,22
15:23 19:24	341:22 349:11	246:22 450:22	71:2,8,13 72:5

[expert - exposure]

Page 37

72:13,16 73:9 expert's 55:7 at7:14,20,21 347:14 511:1 212:12 221:17 73:14,20,21 38:1 39:10 49:5 128:21 129:16 222:7,12,15,19 75:4,9,16 76:13 305:11 128:21 129:16 224:12 225:4,7 77:5,9 89:8,11 305:11 182:18,18 228:10,12 90:5,21 162:2 experts 5:14 183:15 187:12 233:17 234:16 180:9,14 188:9 193:16 201:6 299:11,13 261:15 278:17 196:10 197:9 202:21 253:4 300:12,22 277:7,12 348:21 413:17 280:12,18 203:21,22 expires 539:24 413:19 430:21 280:12,18 280:12,18 206:15,16,17 explain 93:12 436:21,22 286:7 287:2 21:0:13 368:10 386:13 6:16,22 8:1 303:3 306:21 237:13,22 414:4 438:22 10:10,12,19,21 312:17,23 282:10 269:3,8 282:11 307:23 166:9 233:12 11:11,18,23 303:3 30:23 33:5,6 308:15,24 389:19 414:6 113:24 119:24 331:13 334:6 308:4 329:9 460:4 461:8,21				\mathcal{E}
74:7,9,13 75:2 38:1 39:10 49:5 128:21 129:16 224:12 225:4,7 75:4,9,16 76:13 305:11 182:18,18 228:10,12 90:5,21 162:2 experts 5:14 183:15 187:12 233:17 234:16 180:9,14 188:9 193:16 201:6 299:11,13 261:15 278:17 196:10 197:9 202:21 253:4 300:12,22 279:1,18 203:21,22 expires 539:24 413:19 430:21 281:17,24 206:15,16,17 291:23 318:10 expires 539:24 413:19 430:21 281:17,24 210:21 214:12 137:24 229:20 502:17 290:2 291:1,20 211:0,13 368:10 386:13 6:16,22 8:1 303:3 306:21 223:13,22 414:4 438:22 10:10,12,19,21 312:17,23 238:2 241:20 459:22 86:1 87:9 90:10 316:1,2 318:4 252:10 269:3,8 282:11 307:23 166:9 233:12 111:11,18,23 300:10 324:8 308:15,24 389:19 414:6 113:24 119:24 331:13 334:6 36:14 382:13 332:14 384:16 120:6 122:13 335:14 33:13 36:14 38:14 170:7	72:13,16 73:9	expert's 55:7	347:14 511:1	212:12 221:17
75:4,9,16 76:13 211:6 305:5,8 153:12,14 225:19,21 77:5,9 89:8,11 90:5,21 162:2 experts 5:14 182:18,18 228:10,12 180:9,14 188:9 193:16 201:6 299:11,13 261:15 278:17 196:10 197:9 202:21 253:4 300:12,22 279:1,18 203:21,22 expires 539:24 413:19 430:21 281:17,24 206:15,16,17 explain 93:12 436:21,22 286:7 287:2 21:0:21 214:12 137:24 229:20 502:17 290:2 291:1,20 221:10,13 368:10 386:13 6:16,22 8:1 303:3 306:21 237:13,22 414:4 438:22 10:10,12,19,21 312:17,23 238:2 241:20 291:23 318:10 exposure 5:18 292:12 297:18 282:11 307:23 308:2,5,8,10,13 330:10 96:17 319:4,23 308:15,24 389:19 414:6 113:24 119:24 330:23 331:5,6 309:4 329:9 460:4 461:8,21 120:6 122:13 338:13,19 341:13 342:1 explaining 122:19 125:16 338:13,19 368:14 38:13 170:7 318:5 126:13 128:5	73:14,20,21	expertise 23:16	exposed 126:3	222:7,12,15,19
77:5,9 89:8,11 305:11 182:18,18 228:10,12 90:5,21 162:2 28:14 61:2 69:1 286:6 298:12 233:17 234:16 188:10 193:24 193:16 201:6 299:11,13 261:15 278:17 196:10 197:9 202:21 253:4 300:12,22 279:11,18 201:20 202:20 277:7,12 348:21 413:17 280:12,18 203:21,22 expires 539:24 explain 93:12 286:7 287:2 286:7 287:2 206:15,16,17 291:23 318:10 286:10 2,22 286:7 287:2 286:7 287:2 21:0,13 368:10 386:13 66:16,22 8:1 303:3 306:21 291:23 318:10 290:2 291:1,20 221:10,13 368:10 386:13 66:16,22 8:1 303:3 306:21 312:17,23 237:13,22 414:4 438:22 459:22 86:1 87:9 90:10 316:1,2 318:4 252:10 269:3,8 explained 92:3 93:10 96:17 319:4,23 308:15,24 389:19 414:6 313:24 119:24 331:3 334:6 309:4 329:9 460:4 461:8,21 120:6 122:13 335:24 338:5 341:13 342:1 explaining 122:19 125:16	74:7,9,13 75:2	38:1 39:10 49:5	128:21 129:16	224:12 225:4,7
90:5,21 162:2 180:9,14 188:9 188:10 193:24 196:10 197:9 201:20 202:20 277:7,12 206:15,16,17 210:21 214:12 216:16,19 221:10,13 223:12 22 236:10 269:3,8 223:13 22 238:2 241:20 252:10 269:3,8 282:11 307:23 282:11 307:23 308:15,24 308:25,8,10,13 308:15,24 308:25,8,10,13 308:15,24 309:4 329:9 341:13 342:1 308:14 488:16 418:5 431:4 418:5 431:4 418:5 431:4 418:5 431:4 418:19 430:21 418:19 430:21 286:6 298:12 299:11,13 200:12,22 279:1,18 241:20 291:23 318:10 291:23 318:10 290:2 291:1,20 290:2 291:2,20 20:10:10,10;20;20 20:10:10,10;20;20 20:10:10,10;20;20 20:10:10,10;20;20 20:10:10,10;20;20 20:10:10,10;20;20 20:10:10,10;20;20 20:10:10,10;20;20 20:10:10,10;20;20 20:10:10,10;20;20 20:10:10,10;20;20 20:10:10,10;20	75:4,9,16 76:13	211:6 305:5,8	153:12,14	225:19,21
180:9,14 188:9 28:14 61:2 69:1 286:6 298:12 235:5 254:9,24 188:10 193:24 193:16 201:6 299:11,13 261:15 278:17 196:10 197:9 202:21 253:4 300:12,22 279:1,18 201:20 202:20 277:7,12 348:21 413:17 280:12,18 203:21,22 expires 539:24 413:19 430:21 281:17,24 206:15,16,17 explain 93:12 436:21,22 286:7 287:2 210:21 214:12 137:24 229:20 502:17 290:2 291:1,20 210:10,13 368:10 386:13 6:16,22 8:1 303:3 306:21 237:13,22 414:4 438:22 10:10,12,19,21 312:17,23 235:2 241:20 459:22 86:1 87:9 90:10 316:1,2 318:4 282:11 307:23 166:9 233:12 111:11,18,23 320:10 324:8 308:15,24 389:19 414:6 113:24 119:24 331:13 334:6 309:4 329:9 460:4 461:8,21 120:6 122:13 335:24 338:5 341:13 342:1 170:7 318:5 126:13 128:5 339:17 340:18 485:24:17 455:2 108:8 139:13 122:19 125:16 338:13	77:5,9 89:8,11	305:11	182:18,18	228:10,12
188:10 193:24 193:16 201:6 299:11,13 261:15 278:17 196:10 197:9 202:21 253:4 300:12,22 279:1,18 201:20 202:20 277:7,12 348:21 413:17 280:12,18 203:21,22 expires 539:24 413:19 430:21 281:17,24 206:15,16,17 explain 93:12 436:21,22 286:7 287:2 210:21 214:12 137:24 229:20 502:17 290:2 291:1,20 221:10,13 368:10 386:13 6:16,22 8:1 303:3 306:21 237:13,22 414:4 438:22 10:10,12,19,21 312:17,23 238:2 241:20 459:22 86:1 87:9 90:10 316:1,2 318:4 252:10 269:3,8 explained 92:3 93:10 96:17 319:4,23 308:2,5,8,10,13 333:16 319:10 312:2 113:3,18 330:23 331:5,6 309:4 329:9 460:4 461:8,21 120:6 122:13 335:24 338:5 341:13 342:1 explaining 122:19 125:16 338:13,19 368:14 382:13 319:14 128:19 129:2 340:24 346:22 418:5 431:4 explanation 129:12 131:15 350:24 352:21	90:5,21 162:2	experts 5:14	183:15 187:12	233:17 234:16
196:10 197:9	180:9,14 188:9	28:14 61:2 69:1	286:6 298:12	235:5 254:9,24
201:20 202:20 277:7,12 348:21 413:17 280:12,18 203:21,22 expires 539:24 413:19 430:21 281:17,24 206:15,16,17 explain 93:12 436:21,22 286:7 287:2 210:21 214:12 137:24 229:20 502:17 290:2 291:1,20 216:16,19 291:23 318:10 exposure 5:18 292:12 297:18 221:10,13 368:10 386:13 6:16,22 8:1 303:3 306:21 237:13,22 414:4 438:22 10:10,12,19,21 312:17,23 238:2 241:20 459:22 86:1 87:9 90:10 316:1,2 318:4 252:10 269:3,8 explained 92:3 93:10 96:17 319:4,23 308:15,24 389:19 414:6 113:24 119:24 331:13 334:6 309:4 329:9 460:4 461:8,21 120:6 122:13 335:24 338:5 341:13 342:1 explaining 122:19 125:16 338:13,19 368:14 382:13 170:7 318:5 126:13 128:5 339:17 340:18 382:14 384:16 319:14 128:19 129:2 340:24 346:22 454:17 455:2 108:8 139:13 132:3,5 140:3 353:18,19	188:10 193:24	193:16 201:6	299:11,13	261:15 278:17
203:21,22 expires 539:24 413:19 430:21 281:17,24 206:15,16,17 210:21 214:12 137:24 229:20 502:17 290:2 291:1,20 216:16,19 291:23 318:10 exposure 5:18 292:12 297:18 221:10,13 368:10 386:13 6:16,22 8:1 303:3 306:21 237:13,22 414:4 438:22 10:10,12,19,21 312:17,23 238:2 241:20 459:22 86:1 87:9 90:10 316:1,2 318:4 252:10 269:3,8 explained 92:3 93:10 96:17 319:4,23 308:2,5,8,10,13 233:16 319:10 112:2 113:3,18 330:23 331:5,6 308:15,24 389:19 414:6 113:24 119:24 331:13 334:6 309:4 329:9 460:4 461:8,21 120:6 122:13 335:24 338:5 341:13 342:1 explaining 122:19 125:16 338:13,19 368:14 382:13 170:7 318:5 126:13 128:5 339:17 340:18 382:14 384:16 319:14 128:19 129:2 340:24 346:22 454:17 455:2 108:8 139:13 132:3,5 140:3 353:18,19 460:5 465:4 </td <td>196:10 197:9</td> <td>202:21 253:4</td> <td>300:12,22</td> <td>279:1,18</td>	196:10 197:9	202:21 253:4	300:12,22	279:1,18
206:15,16,17 explain 93:12 436:21,22 286:7 287:2 210:21 214:12 137:24 229:20 502:17 290:2 291:1,20 216:16,19 291:23 318:10 exposure 5:18 292:12 297:18 221:10,13 368:10 386:13 6:16,22 8:1 303:3 306:21 237:13,22 414:4 438:22 10:10,12,19,21 312:17,23 238:2 241:20 459:22 86:1 87:9 90:10 316:1,2 318:4 252:10 269:3,8 explained 92:3 93:10 96:17 319:4,23 282:11 307:23 166:9 233:12 111:11,18,23 320:10 324:8 308:2,5,8,10,13 233:16 319:10 112:2 113:3,18 330:23 331:5,6 308:15,24 389:19 414:6 113:24 119:24 331:13 334:6 309:4 329:9 460:4 461:8,21 120:6 122:13 335:24 338:5 341:13 342:1 explaining 122:19 125:16 338:13,19 382:14 384:16 170:7 318:5 126:13 128:5 339:17 340:18 382:14 384:16 19:14 explaining 128:19 129:2 340:24 346:22 45:17 455:2 </td <td>201:20 202:20</td> <td>277:7,12</td> <td>348:21 413:17</td> <td>280:12,18</td>	201:20 202:20	277:7,12	348:21 413:17	280:12,18
210:21 214:12 137:24 229:20 502:17 290:2 291:1,20 216:16,19 291:23 318:10 exposure 5:18 292:12 297:18 221:10,13 368:10 386:13 6:16,22 8:1 303:3 306:21 237:13,22 414:4 438:22 10:10,12,19,21 312:17,23 238:2 241:20 459:22 86:1 87:9 90:10 316:1,2 318:4 252:10 269:3,8 explained 92:3 93:10 96:17 319:4,23 282:11 307:23 166:9 233:12 111:11,18,23 320:10 324:8 308:2,5,8,10,13 233:16 319:10 112:2 113:3,18 330:23 331:5,6 309:4 329:9 460:4 461:8,21 120:6 122:13 335:24 338:5 341:13 342:1 explaining 122:19 125:16 338:13,19 368:14 382:13 319:14 122:19 125:16 338:13,19 382:14 384:16 170:7 318:5 126:13 128:5 339:17 340:18 460:5 465:4 140:2 166:13 132:3,5 140:3 353:18,19 469:14 477:16 176:10 182:9 151:13 152:4,7 370:4,8 386:12 479:3,17 207:13 234:1 150:23 161:5 3	203:21,22	expires 539:24	413:19 430:21	281:17,24
216:16,19 291:23 318:10 exposure 5:18 292:12 297:18 221:10,13 368:10 386:13 6:16,22 8:1 303:3 306:21 237:13,22 414:4 438:22 10:10,12,19,21 312:17,23 238:2 241:20 459:22 86:1 87:9 90:10 316:1,2 318:4 252:10 269:3,8 explained 92:3 93:10 96:17 319:4,23 282:11 307:23 166:9 233:12 111:11,18,23 320:10 324:8 308:2,5,8,10,13 339:19 414:6 113:24 119:24 331:13 334:6 309:4 329:9 460:4 461:8,21 120:6 122:13 335:24 338:5 341:13 342:1 explaining 122:19 125:16 338:13,19 368:14 382:13 170:7 318:5 126:13 128:5 339:17 340:18 382:14 384:16 19:14 128:19 129:2 340:24 346:22 454:17 455:2 108:8 139:13 132:3,5 140:3 353:18,19 460:5 465:4 140:2 166:13 140:10 146:1 354:22 355:18 469:14 477:16 176:10 182:9 151:13 152:4,7 370:4,8 386:12 479:3,17 207:13 234:1 150:5,9,21 35	206:15,16,17	explain 93:12	436:21,22	286:7 287:2
221:10,13 368:10 386:13 6:16,22 8:1 303:3 306:21 237:13,22 414:4 438:22 10:10,12,19,21 312:17,23 238:2 241:20 459:22 86:1 87:9 90:10 316:1,2 318:4 252:10 269:3,8 explained 92:3 93:10 96:17 319:4,23 282:11 307:23 166:9 233:12 111:11,18,23 320:10 324:8 308:2,5,8,10,13 233:16 319:10 112:2 113:3,18 330:23 331:5,6 308:15,24 389:19 414:6 113:24 119:24 331:13 334:6 309:4 329:9 460:4 461:8,21 120:6 122:13 335:24 338:5 341:13 342:1 explaining 122:19 125:16 338:13,19 368:14 382:13 170:7 318:5 126:13 128:5 339:17 340:18 382:14 384:16 319:14 128:19 129:2 340:24 346:22 418:5 431:4 explanation 129:12 131:15 350:24 352:21 454:17 455:2 108:8 139:13 132:3,5 140:3 353:18,19 460:5 465:4 140:2 166:13 140:10 146:1 354:22 355:18 469:14 477:16 176:10 182:9 151:13 152:4,7 370:4,8 386:12 479:3,17 207:13 234:1 153:	210:21 214:12	137:24 229:20	502:17	290:2 291:1,20
237:13,22 414:4 438:22 10:10,12,19,21 312:17,23 238:2 241:20 459:22 86:1 87:9 90:10 316:1,2 318:4 252:10 269:3,8 explained 92:3 93:10 96:17 319:4,23 282:11 307:23 166:9 233:12 111:11,18,23 320:10 324:8 308:2,5,8,10,13 233:16 319:10 112:2 113:3,18 330:23 331:5,6 308:15,24 389:19 414:6 113:24 119:24 331:13 334:6 309:4 329:9 460:4 461:8,21 120:6 122:13 335:24 338:5 341:13 342:1 explaining 122:19 125:16 338:13,19 382:14 384:16 319:14 128:19 129:2 340:24 346:22 418:5 431:4 explanation 129:12 131:15 350:24 352:21 454:17 455:2 108:8 139:13 132:3,5 140:3 353:18,19 460:5 465:4 140:2 166:13 140:10 146:1 354:22 355:18 468:22,23 174:24 175:10 150:5,9,21 356:15 367:9 469:14 477:16 176:10 182:9 151:13 152:4,7 370:4,8 386:12 479:3,17 207:13 234:1 153:15 154:20 389:19,22 481:22 491:11 315:15,17 160:23 161	216:16,19	291:23 318:10	exposure 5:18	292:12 297:18
238:2 241:20 459:22 86:1 87:9 90:10 316:1,2 318:4 252:10 269:3,8 explained 92:3 93:10 96:17 319:4,23 282:11 307:23 166:9 233:12 111:11,18,23 320:10 324:8 308:2,5,8,10,13 233:16 319:10 112:2 113:3,18 330:23 331:5,6 308:15,24 389:19 414:6 113:24 119:24 331:13 334:6 309:4 329:9 460:4 461:8,21 120:6 122:13 335:24 338:5 341:13 342:1 explaining 122:19 125:16 338:13,19 382:14 384:16 319:14 128:19 129:2 340:24 346:22 418:5 431:4 explanation 129:12 131:15 350:24 352:21 454:17 455:2 108:8 139:13 132:3,5 140:3 353:18,19 460:5 465:4 140:2 166:13 140:10 146:1 354:22 355:18 468:22,23 174:24 175:10 150:5,9,21 356:15 367:9 469:14 477:16 176:10 182:9 151:13 152:4,7 370:4,8 386:12 479:3,17 207:13 234:1 153:15 154:20 389:19,22 481:22 491:11 315:15,17 160:23 161:5 390:2,13,18 491:12 499:23 33:22 174:20	221:10,13	368:10 386:13	6:16,22 8:1	303:3 306:21
252:10 269:3,8 explained 92:3 93:10 96:17 319:4,23 282:11 307:23 166:9 233:12 111:11,18,23 320:10 324:8 308:2,5,8,10,13 233:16 319:10 112:2 113:3,18 330:23 331:5,6 308:15,24 389:19 414:6 113:24 119:24 331:13 334:6 309:4 329:9 460:4 461:8,21 120:6 122:13 335:24 338:5 341:13 342:1 explaining 122:19 125:16 338:13,19 368:14 382:13 170:7 318:5 126:13 128:5 339:17 340:18 382:14 384:16 319:14 128:19 129:2 340:24 346:22 418:5 431:4 explanation 129:12 131:15 350:24 352:21 454:17 455:2 108:8 139:13 132:3,5 140:3 353:18,19 460:5 465:4 140:2 166:13 140:10 146:1 354:22 355:18 469:14 477:16 176:10 182:9 151:13 152:4,7 370:4,8 386:12 479:3,17 207:13 234:1 153:15 154:20 389:19,22 481:22 491:11 315:15,17 160:23 161:5 390:2,13,18 491:12 499:23 33:22 174:20 178:8	237:13,22	414:4 438:22	10:10,12,19,21	312:17,23
282:11 307:23 166:9 233:12 111:11,18,23 320:10 324:8 308:2,5,8,10,13 233:16 319:10 112:2 113:3,18 330:23 331:5,6 308:15,24 389:19 414:6 113:24 119:24 331:13 334:6 309:4 329:9 460:4 461:8,21 120:6 122:13 335:24 338:5 341:13 342:1 explaining 122:19 125:16 338:13,19 368:14 382:13 170:7 318:5 126:13 128:5 339:17 340:18 382:14 384:16 319:14 128:19 129:2 340:24 346:22 418:5 431:4 explanation 129:12 131:15 350:24 352:21 454:17 455:2 108:8 139:13 132:3,5 140:3 353:18,19 460:5 465:4 140:2 166:13 140:10 146:1 354:22 355:18 468:22,23 174:24 175:10 150:5,9,21 356:15 367:9 469:14 477:16 176:10 182:9 151:13 152:4,7 370:4,8 386:12 479:3,17 207:13 234:1 153:15 154:20 389:19,22 481:22 491:11 315:15,17 160:23 161:5 390:2,13,18 491:12 499:23 explanations 169:6 172:3 400:8,23 405:3 519:9,16 33:22 174:20 178:8	238:2 241:20	459:22	86:1 87:9 90:10	316:1,2 318:4
308:2,5,8,10,13 233:16 319:10 112:2 113:3,18 330:23 331:5,6 308:15,24 389:19 414:6 113:24 119:24 331:13 334:6 309:4 329:9 460:4 461:8,21 120:6 122:13 335:24 338:5 341:13 342:1 explaining 122:19 125:16 338:13,19 368:14 382:13 170:7 318:5 126:13 128:5 339:17 340:18 382:14 384:16 319:14 128:19 129:2 340:24 346:22 418:5 431:4 explanation 129:12 131:15 350:24 352:21 454:17 455:2 108:8 139:13 132:3,5 140:3 353:18,19 460:5 465:4 140:2 166:13 140:10 146:1 354:22 355:18 468:22,23 174:24 175:10 150:5,9,21 356:15 367:9 469:14 477:16 176:10 182:9 151:13 152:4,7 370:4,8 386:12 479:3,17 207:13 234:1 153:15 154:20 389:19,22 481:22 491:11 315:15,17 160:23 161:5 390:2,13,18 491:12 499:23 explanations 169:6 172:3 400:8,23 405:3 519:9,16 33:22 174:20 178:8 179:14 407:3,20,23 520:14 529:17 231:21 318:11 182:7	252:10 269:3,8	explained 92:3	93:10 96:17	319:4,23
308:15,24 389:19 414:6 113:24 119:24 331:13 334:6 309:4 329:9 460:4 461:8,21 120:6 122:13 335:24 338:5 341:13 342:1 explaining 122:19 125:16 338:13,19 368:14 382:13 170:7 318:5 126:13 128:5 339:17 340:18 382:14 384:16 319:14 128:19 129:2 340:24 346:22 418:5 431:4 explanation 129:12 131:15 350:24 352:21 454:17 455:2 108:8 139:13 132:3,5 140:3 353:18,19 460:5 465:4 140:2 166:13 140:10 146:1 354:22 355:18 468:22,23 174:24 175:10 150:5,9,21 356:15 367:9 469:14 477:16 176:10 182:9 151:13 152:4,7 370:4,8 386:12 479:3,17 207:13 234:1 153:15 154:20 389:19,22 481:22 491:11 315:15,17 160:23 161:5 390:2,13,18 491:12 499:23 explanations 169:6 172:3 400:8,23 405:3 519:9,16 33:22 174:20 178:8 179:14 407:3,20,23 520:14 529:17 231:21 318:11 182:7,20 409:8 412:12	282:11 307:23	166:9 233:12	111:11,18,23	320:10 324:8
309:4 329:9 460:4 461:8,21 120:6 122:13 335:24 338:5 341:13 342:1 explaining 122:19 125:16 338:13,19 368:14 382:13 170:7 318:5 126:13 128:5 339:17 340:18 382:14 384:16 319:14 128:19 129:2 340:24 346:22 418:5 431:4 explanation 129:12 131:15 350:24 352:21 454:17 455:2 108:8 139:13 132:3,5 140:3 353:18,19 460:5 465:4 140:2 166:13 140:10 146:1 354:22 355:18 468:22,23 174:24 175:10 150:5,9,21 356:15 367:9 469:14 477:16 176:10 182:9 151:13 152:4,7 370:4,8 386:12 479:3,17 207:13 234:1 153:15 154:20 389:19,22 481:22 491:11 315:15,17 160:23 161:5 390:2,13,18 491:12 499:23 explanations 169:6 172:3 400:8,23 405:3 519:9,16 33:22 174:20 178:8 179:14 407:3,20,23 520:14 529:17 231:21 318:11 182:7,20 409:8 412:12	308:2,5,8,10,13	233:16 319:10	112:2 113:3,18	330:23 331:5,6
341:13 342:1 explaining 122:19 125:16 338:13,19 368:14 382:13 170:7 318:5 126:13 128:5 339:17 340:18 382:14 384:16 319:14 128:19 129:2 340:24 346:22 418:5 431:4 explanation 129:12 131:15 350:24 352:21 454:17 455:2 108:8 139:13 132:3,5 140:3 353:18,19 460:5 465:4 140:2 166:13 140:10 146:1 354:22 355:18 468:22,23 174:24 175:10 150:5,9,21 356:15 367:9 469:14 477:16 176:10 182:9 151:13 152:4,7 370:4,8 386:12 479:3,17 207:13 234:1 153:15 154:20 389:19,22 481:22 491:11 315:15,17 160:23 161:5 390:2,13,18 491:12 499:23 explanations 169:6 172:3 400:8,23 405:3 519:9,16 33:22 174:20 178:8 179:14 407:3,20,23 520:14 529:17 231:21 318:11 182:7,20 409:8 412:12	308:15,24	389:19 414:6	113:24 119:24	331:13 334:6
368:14 382:13 170:7 318:5 126:13 128:5 339:17 340:18 382:14 384:16 319:14 128:19 129:2 340:24 346:22 418:5 431:4 explanation 129:12 131:15 350:24 352:21 454:17 455:2 108:8 139:13 132:3,5 140:3 353:18,19 460:5 465:4 140:2 166:13 140:10 146:1 354:22 355:18 468:22,23 174:24 175:10 150:5,9,21 356:15 367:9 469:14 477:16 176:10 182:9 151:13 152:4,7 370:4,8 386:12 479:3,17 207:13 234:1 153:15 154:20 389:19,22 481:22 491:11 315:15,17 160:23 161:5 390:2,13,18 491:12 499:23 explanations 169:6 172:3 400:8,23 405:3 519:9,16 33:22 174:20 178:8 179:14 407:3,20,23 520:14 529:17 231:21 318:11 182:7,20 409:8 412:12	309:4 329:9	460:4 461:8,21	120:6 122:13	335:24 338:5
382:14 384:16 319:14 128:19 129:2 340:24 346:22 418:5 431:4 explanation 129:12 131:15 350:24 352:21 454:17 455:2 108:8 139:13 132:3,5 140:3 353:18,19 460:5 465:4 140:2 166:13 140:10 146:1 354:22 355:18 468:22,23 174:24 175:10 150:5,9,21 356:15 367:9 469:14 477:16 176:10 182:9 151:13 152:4,7 370:4,8 386:12 479:3,17 207:13 234:1 153:15 154:20 389:19,22 481:22 491:11 315:15,17 160:23 161:5 390:2,13,18 491:12 499:23 explanations 169:6 172:3 400:8,23 405:3 519:9,16 33:22 174:20 178:8 179:14 407:3,20,23 520:14 529:17 231:21 318:11 182:7,20 409:8 412:12	341:13 342:1	explaining	122:19 125:16	338:13,19
418:5 431:4 explanation 129:12 131:15 350:24 352:21 454:17 455:2 108:8 139:13 132:3,5 140:3 353:18,19 460:5 465:4 140:2 166:13 140:10 146:1 354:22 355:18 468:22,23 174:24 175:10 150:5,9,21 356:15 367:9 469:14 477:16 176:10 182:9 151:13 152:4,7 370:4,8 386:12 479:3,17 207:13 234:1 153:15 154:20 389:19,22 481:22 491:11 315:15,17 160:23 161:5 390:2,13,18 491:12 499:23 explanations 169:6 172:3 400:8,23 405:3 519:9,16 33:22 174:20 178:8 179:14 407:3,20,23 520:14 529:17 231:21 318:11 182:7,20 409:8 412:12	368:14 382:13	170:7 318:5	126:13 128:5	339:17 340:18
454:17 455:2 108:8 139:13 132:3,5 140:3 353:18,19 460:5 465:4 140:2 166:13 140:10 146:1 354:22 355:18 468:22,23 174:24 175:10 150:5,9,21 356:15 367:9 469:14 477:16 176:10 182:9 151:13 152:4,7 370:4,8 386:12 479:3,17 207:13 234:1 153:15 154:20 389:19,22 481:22 491:11 315:15,17 160:23 161:5 390:2,13,18 491:12 499:23 explanations 169:6 172:3 400:8,23 405:3 519:9,16 33:22 174:20 178:8 179:14 407:3,20,23 520:14 529:17 231:21 318:11 182:7,20 409:8 412:12	382:14 384:16	319:14	128:19 129:2	340:24 346:22
460:5 465:4 140:2 166:13 140:10 146:1 354:22 355:18 468:22,23 174:24 175:10 150:5,9,21 356:15 367:9 469:14 477:16 176:10 182:9 151:13 152:4,7 370:4,8 386:12 479:3,17 207:13 234:1 153:15 154:20 389:19,22 481:22 491:11 315:15,17 160:23 161:5 390:2,13,18 491:12 499:23 explanations 169:6 172:3 400:8,23 405:3 519:9,16 33:22 174:20 178:8 179:14 407:3,20,23 520:14 529:17 231:21 318:11 182:7,20 409:8 412:12	418:5 431:4	explanation	129:12 131:15	350:24 352:21
468:22,23 174:24 175:10 150:5,9,21 356:15 367:9 469:14 477:16 176:10 182:9 151:13 152:4,7 370:4,8 386:12 479:3,17 207:13 234:1 153:15 154:20 389:19,22 481:22 491:11 315:15,17 160:23 161:5 390:2,13,18 491:12 499:23 explanations 169:6 172:3 400:8,23 405:3 519:9,16 33:22 174:20 178:8 179:14 407:3,20,23 520:14 529:17 231:21 318:11 182:7,20 409:8 412:12	454:17 455:2	108:8 139:13	132:3,5 140:3	353:18,19
469:14 477:16 176:10 182:9 151:13 152:4,7 370:4,8 386:12 479:3,17 207:13 234:1 153:15 154:20 389:19,22 481:22 491:11 315:15,17 160:23 161:5 390:2,13,18 491:12 499:23 explanations 169:6 172:3 400:8,23 405:3 519:9,16 33:22 174:20 178:8 179:14 407:3,20,23 520:14 529:17 231:21 318:11 182:7,20 409:8 412:12	460:5 465:4	140:2 166:13	140:10 146:1	354:22 355:18
479:3,17 207:13 234:1 153:15 154:20 389:19,22 481:22 491:11 315:15,17 160:23 161:5 390:2,13,18 491:12 499:23 explanations 169:6 172:3 400:8,23 405:3 519:9,16 33:22 174:20 178:8 179:14 407:3,20,23 520:14 529:17 231:21 318:11 182:7,20 409:8 412:12	468:22,23	174:24 175:10	150:5,9,21	356:15 367:9
481:22 491:11 315:15,17 160:23 161:5 390:2,13,18 491:12 499:23 explanations 169:6 172:3 400:8,23 405:3 519:9,16 33:22 174:20 178:8 179:14 407:3,20,23 520:14 529:17 231:21 318:11 182:7,20 409:8 412:12	469:14 477:16	176:10 182:9	151:13 152:4,7	370:4,8 386:12
491:12 499:23 explanations 169:6 172:3 400:8,23 405:3 519:9,16 33:22 174:20 178:8 179:14 407:3,20,23 520:14 529:17 231:21 318:11 182:7,20 409:8 412:12	479:3,17	207:13 234:1	153:15 154:20	389:19,22
519:9,16 33:22 174:20 178:8 179:14 407:3,20,23 520:14 529:17 231:21 318:11 182:7,20 409:8 412:12	481:22 491:11	315:15,17	160:23 161:5	390:2,13,18
520:14 529:17 231:21 318:11 182:7,20 409:8 412:12	491:12 499:23	explanations	169:6 172:3	400:8,23 405:3
	519:9,16	33:22 174:20	178:8 179:14	407:3,20,23
318:23 319:14 185:19 186:20 413:8 414:8	520:14 529:17	231:21 318:11	182:7,20	409:8 412:12
		318:23 319:14	185:19 186:20	413:8 414:8

Document 33008-56 PageID: 211386

Golkow Technologies, A Veritext Division

[exposure - falsification]

Page 38

[]			- 1.60
415:9,14 429:1	173:19 204:1	446:24 447:23	462:5
430:8 432:18	228:9,10 318:1	448:4 453:19	facts 41:18
434:3,3,8,12	334:14 337:2	455:10 458:4	203:3 466:20
436:17 438:12	337:11 358:22	479:8 481:19	468:17 499:22
441:16 446:2	396:8 413:24	485:16 489:2	528:23
449:5 454:12	443:7 478:23	489:20 508:19	fail 386:17
457:4 462:7	483:16 499:19	519:24 523:7	failed 87:7
472:17 475:22	518:21 535:3,8	factor 113:2,14	125:14 262:19
483:24 485:13	external 266:15	114:12 157:22	290:22 291:13
486:14 487:4	395:3	158:3,8,11,16	291:22 407:8
487:12 494:1,7	externally	158:20 159:1	fair 83:2 119:11
496:6,10	245:10	160:5 226:17	119:15,16
498:11 502:8	f	316:21,22	120:1 154:17
502:19 504:17	facilities 394:12	328:7 338:14	154:18 240:5
505:15 506:14	facing 265:23	394:12 395:18	307:24 308:1
511:8 512:11	266:15 395:3	395:19 396:4,9	329:19 430:16
516:7 517:12	fact 28:12	396:16 416:3	439:23 513:18
518:24 522:16	87:19 91:7	486:21 503:10	515:6 516:17
524:7	103:2 128:9	503:16	fairly 368:7
exposures 86:6	134:16,19	factors 7:18	fairness 132:14
147:6 157:13	152:24 162:1	24:7 111:18	fall 312:9
172:8,13 173:9	169:11 206:3	113:8 115:3,19	fallopian 7:7
300:1 335:16	207:14 231:2	130:6,8 141:4	227:11,16,20
434:22 448:16	264:19 280:1	147:24 148:4	227:24 228:3,7
512:7	281:22 293:19	150:19 157:14	228:10 271:11
express 97:7	294:3 302:18	159:24 160:1	272:16 416:16
expressed 31:2	324:6 341:2	229:6 232:23	416:21,24
31:4,5 453:5	354:4,14	234:7,12 235:6	521:18,24
extensive 168:5	374:11,17,18	246:22 258:12	522:9
237:4 414:16	374:22 387:21	265:5 290:23	falls 148:21,22
503:17	392:1 399:14	305:12,16,23	188:7 290:16
extent 18:9	417:1 425:13	311:4 315:18	318:1 327:16
30:1 46:8 71:14	431:6 440:8	321:4,22 335:4	false 278:4
81:19 82:23	442:14,14	343:4 394:5,8	279:1,7,10,21
157:1 158:18	TT2.1T,1T	205.11.24	C 1 *C* 4*
	443:13 445:6	395:11,24	falsification

[familiar - findings]

Page 39

familiar 134:5 310:17 311:7 fees 17:6 financially 156:21 157:24 435:23 452:4 felt 222:1 237:5 539:16 158:9,18 452:21 479:19 280:20 289:13 107:7 161:23 180:6 479:24 481:23 291:8 387:20 122:9 176:24 182:21 208:24 485:17 490:6,8 513:17 524:7 185:16 251:5 406:18 430:3 526:1 533:8 fetal 173:4,4 342:23 343:20 familiarize 534:4 fewer 120:15 390:4 397:19 far 81:4 86:8 feasible 127:21 224:20 225:1 446:18 482:2 240:17 301:2 336:18 fibroids 11:6 495:18 500:17 396:2 532:4 feature 131:12 feature 131:12 509:10,24 fast 256:17 february 6:20 7:12,17 8:3 9:9 field 378:20 534:20 35:13,22 36:1,4 52:9 54:17 figure 17:24 260:24 294:8 36:10,13,14,17 55:20 56:1 18:22 101:2,2 295:2,17 41:1 91:5,23 193:24 federal 11:9 265:14 482:23 498:2 315:15,17		, J		1 4 6 5 7
158:9,18	familiar 134:5	310:17 311:7	fees 17:6	financially
161:23 180:6 479:24 481:23 291:8 387:20 122:9 176:24 182:21 208:24 485:17 490:6,8 513:17 524:7 185:16 251:5 264:16 278:20 512:22 525:1 female 462:6 254:9 282:6 406:18 430:3 526:1 533:8 fetal 173:4,4 342:23 343:20 familiarize 534:4 fewer 120:15 390:4 397:19 194:19 fda's 245:18,24 fewer 120:15 390:4 397:19 family 159:3,6 feasible 127:21 224:20 225:1 446:18 482:2 far 81:4 86:8 feable 127:21 226:10,13 484:10 485:18 396:2 532:4 feature 131:12 478:1 503:22 507:1 farber 343:1,13 features 219:14 feb 6:24 503:22 507:1 fast 256:17 february 6:20 7:12,17 8:3 9:9 field 378:20 534:20 f35:13,22 36:1,4 52:9 54:17 55:20 56:1 18:22 101:2,2 295:2,17 41:1 91:5,23 193:24 federal 11:9 400:21 401:6 299:4 314:4,11 242:4 243:4,13 265:14 482:23 488:2 315:15,17 244:6 245	156:21 157:24	435:23 452:4	felt 222:1 237:5	539:16
182:21 208:24 485:17 490:6,8 513:17 524:7 185:16 251:5 264:16 278:20 512:22 525:1 female 462:6 254:9 282:6 406:18 430:3 526:1 533:8 fetal 173:4,4 342:23 343:20 familiarize 534:4 fewer 120:15 390:4 397:19 194:19 fda's 245:18,24 fibers 184:21 420:10 421:4 family 159:3,6 feasible 127:21 226:10,13 484:10 485:18 240:17 301:2 336:18 fibroids 11:6 495:18 500:17 396:2 532:4 feature 131:12 feb 6:24 503:22 507:1 farber 343:1,13 feb 6:24 fillonus 6:22 509:10,24 527:2 7:12,17 8:3 9:9 fields 378:20 534:20 fida 5:22 7:1 10:11 44:16,16 fifth 138:14 104:2 143:14 35:13,22 36:1,4 52:9 54:17 figure 17:24 260:24 294:8 36:10,13,14,17 55:20 56:1 18:22 101:2,2 295:2,17 41:1 91:5,23 193:24 104:8 327:4 298:15,20 92:15 94:4 federal 11:9 400:21 401:6 299:4 314:4,11	158:9,18	452:21 479:19	280:20 289:13	find 107:7
264:16 278:20 512:22 525:1 female 462:6 254:9 282:6 406:18 430:3 526:1 533:8 fetal 173:4,4 342:23 343:20 familiarize 534:4 fewer 120:15 390:4 397:19 194:19 fda's 245:18,24 fewer 120:15 390:4 397:19 family 159:3,6 feasible 127:21 224:20 225:1 446:18 482:2 far 81:4 86:8 feasible 127:21 226:10,13 484:10 485:18 240:17 301:2 336:18 fibroids 11:6 495:18 500:17 396:2 532:4 feature 131:12 feb 6:24 feb 6:24 feb 6:24 febrous 6:22 509:10,24 fast 256:17 february 6:20 fields 378:20 534:20 fold 5:22 7:1 10:11 44:16,16 fifth 138:14 104:2 143:14 35:13,22 36:1,4 52:9 54:17 figure 17:24 260:24 294:8 36:10,13,14,17 55:20 56:1 18:22 101:2,2 295:2,17 41:1 91:5,23 193:24 104:8 327:4 298:15,20 92:15 94:4 federal 11:9 400:21 401:6 299:4 314:4,11 242:4 243:4,13	161:23 180:6	479:24 481:23	291:8 387:20	122:9 176:24
406:18 430:3 526:1 533:8 fetal 173:4,4 342:23 343:20 familiarize 534:4 fewer 120:15 390:4 397:19 194:19 fda's 245:18,24 fibers 184:21 420:10 421:4 family 159:3,6 feasible 127:21 224:20 225:1 446:18 482:2 far 81:4 86:8 feasible 127:21 226:10,13 484:10 485:18 240:17 301:2 336:18 fibroids 11:6 495:18 500:17 396:2 532:4 feature 131:12 478:1 503:22 507:1 farst 256:17 feb 6:24 207:23,24 523:21 526:21 fast 256:17 february 6:20 fields 378:20 534:20 fda 5:22 7:1 10:11 44:16,16 fifth 138:14 104:2 143:14 35:13,22 36:1,4 52:9 54:17 55:20 56:1 18:22 101:2,2 295:2,17 41:1 91:5,23 193:24 federal 11:9 400:21 401:6 299:4 314:4,11 242:4 243:4,13 <td>182:21 208:24</td> <td>485:17 490:6,8</td> <td>513:17 524:7</td> <td>185:16 251:5</td>	182:21 208:24	485:17 490:6,8	513:17 524:7	185:16 251:5
familiarize 534:4 fewer 120:15 390:4 397:19 family 159:3,6 fax 81:4 86:8 feasible 127:21 224:20 225:1 446:18 482:2 far 81:4 86:8 feasible 127:21 226:10,13 484:10 485:18 240:17 301:2 336:18 fibroids 11:6 495:18 500:17 396:2 532:4 feature 131:12 feb oils 11:6 495:18 500:17 farber 343:1,13 feb oils 11:6 495:18 500:17 503:22 507:1 fast 256:17 feb oils 242:17 8:19 fibrous 6:22 509:10,24 257:2 7:12,17 8:3 9:9 field 378:20 534:20 fda 5:22 7:1 10:11 44:16,16 fifth 138:14 104:2 143:14 35:13,22 36:1,4 55:20 56:1 18:22 101:2,2 295:2,17 41:1 91:5,23 193:24 federal 11:9 400:21 401:6 299:4 314:4,11 242:4 243:4,13 245:14 482:23 489:9 531:20 figures 116:11 316:18 32	264:16 278:20	512:22 525:1	female 462:6	254:9 282:6
194:19 fda's 245:18,24 fibers 184:21 420:10 421:4 family 159:3,6 feasible 127:21 224:20 225:1 446:18 482:2 far 81:4 86:8 feasible 127:21 226:10,13 484:10 485:18 240:17 301:2 336:18 fibroids 11:6 495:18 500:17 396:2 532:4 feature 131:12 478:1 503:22 507:1 farber 343:1,13 feb 6:24 207:23,24 523:21 526:21 fast 256:17 february 6:20 fields 277:8,11 finding 37:6 fda 5:22 7:1 10:11 44:16,16 figure 17:24 260:24 294:8 36:10,13,14,17 55:20 56:1 18:22 101:2,2 295:2,17 41:1 91:5,23 193:24 104:8 327:4 298:15,20 92:15 94:4 federal 11:9 400:21 401:6 299:4 314:4,11 242:4 243:4,13 265:14 482:23 498:2 315:15,17 244:6 245:13 533:6,13 534:2 fille 470:11 <	406:18 430:3	526:1 533:8	fetal 173:4,4	342:23 343:20
family 159:3,6 246:14 261:17 224:20 225:1 446:18 482:2 far 81:4 86:8 feasible 127:21 226:10,13 484:10 485:18 240:17 301:2 336:18 fibroids 11:6 495:18 500:17 396:2 532:4 feature 131:12 478:1 503:22 507:1 farber 343:1,13 feb 6:24 207:23,24 523:21 526:21 fast 256:17 february 6:20 fields 277:8,11 finding 37:6 fda 5:22 7:1 10:11 44:16,16 figure 17:24 260:24 294:8 36:10,13,14,17 55:20 56:1 18:22 101:2,2 295:2,17 41:1 91:5,23 193:24 104:8 327:4 298:15,20 92:15 94:4 federal 11:9 400:21 401:6 299:4 314:4,11 242:4 243:4,13 265:14 482:23 498:2 315:15,17 248:23 250:10 181:18 199:11 301:12 353:6,22 fill 470:11 392:12 412:17 412:18 499:13 431:8 454:23	familiarize	534:4	fewer 120:15	390:4 397:19
far 81:4 86:8 feasible 127:21 226:10,13 484:10 485:18 240:17 301:2 336:18 fibroids 11:6 495:18 500:17 396:2 532:4 feature 131:12 478:1 503:22 507:1 farber 343:1,13 features 219:14 fibrous 6:22 509:10,24 fast 256:17 feb 6:24 207:23,24 523:21 526:21 534:20 fcla 5:22 7:1 10:11 44:16,16 fifth 138:14 104:2 143:14 35:13,22 36:1,4 52:9 54:17 figure 17:24 260:24 294:8 36:10,13,14,17 55:20 56:1 18:22 101:2,2 295:2,17 41:1 91:5,23 193:24 104:2 327:4 299:15,20 92:15 94:4 federal 11:9 400:21 401:6 299:4 314:4,11 242:4 243:4,13 265:14 482:23 498:2 315:15,17 244:6 245:13 533:6,13 534:2 filled 16:11 353:6,22 242:14 281:19 431:8 454:23 15:13 412:18 250:15,18 <td>194:19</td> <td>fda's 245:18,24</td> <td>fibers 184:21</td> <td>420:10 421:4</td>	194:19	fda's 245:18,24	fibers 184:21	420:10 421:4
240:17 301:2 336:18 feature 131:12 478:1 503:22 507:1 farber 343:1,13 features 219:14 fibrous 6:22 509:10,24 fast 256:17 feb 6:24 feb of:24 503:22 507:1 503:22 507:1 fast 256:17 feb ruary 6:20 field 378:20 534:20 fda 5:22 7:1 10:11 44:16,16 fifth 138:14 104:2 143:14 35:13,22 36:1,4 52:9 54:17 figure 17:24 260:24 294:8 36:10,13,14,17 55:20 56:1 18:22 101:2,2 295:2,17 41:1 91:5,23 193:24 federal 11:9 400:21 401:6 299:4 314:4,11 242:4 243:4,13 265:14 482:23 498:2 315:15,17 243:17,24 48:9:9 531:20 figures 116:11 316:18 327:18 244:6 245:13 533:6,13 534:2 filled 470:11 392:12 412:17 248:23 250:10 181:18 199:11 431:8 454:23 filled 16:11 353:6,22	family 159:3,6	246:14 261:17	224:20 225:1	446:18 482:2
396:2 532:4 feature 131:12 478:1 503:22 507:1 farber 343:1,13 features 219:14 fibrous 6:22 509:10,24 394:8 feb 6:24 207:23,24 523:21 526:21 fast 256:17 february 6:20 field 378:20 534:20 257:2 7:12,17 8:3 9:9 fields 277:8,11 finding 37:6 fda 5:22 7:1 10:11 44:16,16 fifth 138:14 104:2 143:14 35:13,22 36:1,4 52:9 54:17 figure 17:24 260:24 294:8 36:10,13,14,17 55:20 56:1 18:22 101:2,2 295:2,17 41:1 91:5,23 193:24 400:21 401:6 299:4 314:4,11 242:4 243:4,13 265:14 482:23 498:2 315:15,17 244:6 245:13 533:6,13 534:2 figures 116:11 316:18 327:18 244:6 245:13 533:6,13 534:2 file 470:11 392:12 412:17 248:23 250:10 181:18 199:11 431:8 454:23 findings 41:3	far 81:4 86:8	feasible 127:21	226:10,13	484:10 485:18
farber 343:1,13 features 219:14 fibrous 6:22 509:10,24 fast 256:17 february 6:20 field 378:20 534:20 257:2 7:12,17 8:3 9:9 fields 277:8,11 finding 37:6 fda 5:22 7:1 4:16,16 fifth 138:14 104:2 143:14 35:13,22 36:1,4 52:9 54:17 figure 17:24 260:24 294:8 36:10,13,14,17 55:20 56:1 18:22 101:2,2 295:2,17 41:1 91:5,23 193:24 104:8 327:4 298:15,20 92:15 94:4 federal 11:9 400:21 401:6 299:4 314:4,11 242:4 243:47,24 489:9 531:20 figures 116:11 316:18 327:18 244:6 245:13 533:6,13 534:2 fille 470:11 392:12 412:18 250:15,18 242:14 281:19	240:17 301:2	336:18	fibroids 11:6	495:18 500:17
394:8 feb 6:24 207:23,24 523:21 526:21 fast 256:17 february 6:20 field 378:20 534:20 fda 5:22 7:1 10:11 44:16,16 fifth 138:14 104:2 143:14 35:13,22 36:1,4 52:9 54:17 figure 17:24 260:24 294:8 36:10,13,14,17 55:20 56:1 18:22 101:2,2 295:2,17 41:1 91:5,23 193:24 104:8 327:4 298:15,20 92:15 94:4 federal 11:9 400:21 401:6 299:4 314:4,11 242:4 243:4,13 265:14 482:23 498:2 315:15,17 243:17,24 489:9 531:20 figures 116:11 316:18 327:18 244:6 245:13 533:6,13 534:2 filled 470:11 392:12 412:17 248:23 250:10 181:18 199:11 filed 163:11 412:18 250:15,18 242:14 281:19 431:8 454:23 findings 41:3 252:3,17 253:2 365:15,21 filled 22:1 147:16,16 253:4,10,24 452:2 52	396:2 532:4	feature 131:12	478:1	503:22 507:1
fast 256:17 february 6:20 field 378:20 534:20 fda 5:22 7:1 10:11 44:16,16 fifth 138:14 104:2 143:14 35:13,22 36:1,4 52:9 54:17 figure 17:24 260:24 294:8 36:10,13,14,17 55:20 56:1 18:22 101:2,2 295:2,17 41:1 91:5,23 193:24 104:8 327:4 298:15,20 92:15 94:4 federal 11:9 400:21 401:6 299:4 314:4,11 242:4 243:4,13 265:14 482:23 498:2 315:15,17 243:17,24 489:9 531:20 figures 116:11 316:18 327:18 246:1 247:3,24 feel 32:15 133:1 301:12 353:6,22 246:1 247:3,24 feel 32:15 133:1 301:12 392:12 412:17 248:23 250:10 181:18 199:11 filed 163:11 412:18 250:15,18 242:14 281:19 431:8 454:23 findings 41:3 252:3,17 253:2 365:15,21 filled 22:1 147:16,16 252:49 257:19	farber 343:1,13	features 219:14	fibrous 6:22	509:10,24
257:2 7:12,17 8:3 9:9 fields 277:8,11 finding 37:6 fda 5:22 7:1 10:11 44:16,16 fifth 138:14 104:2 143:14 35:13,22 36:1,4 52:9 54:17 figure 17:24 260:24 294:8 36:10,13,14,17 55:20 56:1 18:22 101:2,2 295:2,17 41:1 91:5,23 193:24 104:8 327:4 298:15,20 92:15 94:4 federal 11:9 400:21 401:6 299:4 314:4,11 242:4 243:4,13 265:14 482:23 498:2 315:15,17 243:17,24 489:9 531:20 figures 116:11 316:18 327:18 244:6 245:13 533:6,13 534:2 301:12 353:6,22 246:1 247:3,24 feel 32:15 133:1 file 470:11 392:12 412:17 248:23 250:10 181:18 199:11 341:8 454:23 findings 41:3 250:15,18 242:14 281:19 431:8 454:23 findings 41:3 251:4,5,13,18 339:24 355:1 fill 22:22 115:13 147:5 253:4,10,24 384:4 439:22 final 51:15 182:10 229:20 258:8 261:17 526:9 533:20 483:14 530:16 242:4	394:8	feb 6:24	207:23,24	523:21 526:21
fda 5:22 7:1 10:11 44:16,16 fifth 138:14 104:2 143:14 35:13,22 36:1,4 52:9 54:17 figure 17:24 260:24 294:8 36:10,13,14,17 55:20 56:1 18:22 101:2,2 295:2,17 41:1 91:5,23 193:24 104:8 327:4 298:15,20 92:15 94:4 federal 11:9 400:21 401:6 299:4 314:4,11 242:4 243:4,13 265:14 482:23 498:2 315:15,17 243:17,24 489:9 531:20 figures 116:11 316:18 327:18 244:6 245:13 533:6,13 534:2 301:12 353:6,22 246:1 247:3,24 feel 32:15 133:1 file 470:11 392:12 412:17 248:23 250:10 181:18 199:11 filed 163:11 412:18 250:15,18 242:14 281:19 431:8 454:23 findings 41:3 251:4,5,13,18 339:24 355:1 fill 22:22 147:16,16 253:4,10,24 384:4 439:22 final 51:15 182:10 229:20 254:9 257:19 452:2 525:16 <t< td=""><td>fast 256:17</td><td>february 6:20</td><td>field 378:20</td><td>534:20</td></t<>	fast 256:17	february 6:20	field 378:20	534:20
35:13,22 36:1,4 52:9 54:17 figure 17:24 260:24 294:8 36:10,13,14,17 55:20 56:1 18:22 101:2,2 295:2,17 41:1 91:5,23 193:24 104:8 327:4 298:15,20 92:15 94:4 federal 11:9 400:21 401:6 299:4 314:4,11 242:4 243:4,13 265:14 482:23 498:2 315:15,17 243:17,24 489:9 531:20 figures 116:11 316:18 327:18 244:6 245:13 533:6,13 534:2 301:12 353:6,22 246:1 247:3,24 feel 32:15 133:1 file 470:11 392:12 412:17 248:23 250:10 181:18 199:11 431:8 454:23 findings 41:3 250:15,18 242:14 281:19 431:8 454:23 findings 41:3 251:4,5,13,18 339:24 355:1 fill 22:22 115:13 147:5 252:3,17 253:2 365:15,21 filled 22:1 147:16,16 253:4,10,24 384:4 439:22 79:16 479:20 235:2 237:6 258:8 261:17 526:9 533:20 483:14 530:16 242:4 243:4 261:21,24 feels 132:23 534:7 252:17 255:6 </td <td>257:2</td> <td>7:12,17 8:3 9:9</td> <td>fields 277:8,11</td> <td>finding 37:6</td>	257:2	7:12,17 8:3 9:9	fields 277:8,11	finding 37:6
36:10,13,14,17 55:20 56:1 18:22 101:2,2 295:2,17 41:1 91:5,23 193:24 104:8 327:4 298:15,20 92:15 94:4 federal 11:9 400:21 401:6 299:4 314:4,11 242:4 243:4,13 265:14 482:23 498:2 315:15,17 243:17,24 489:9 531:20 figures 116:11 316:18 327:18 244:6 245:13 533:6,13 534:2 301:12 353:6,22 246:1 247:3,24 feel 32:15 133:1 file 470:11 392:12 412:17 248:23 250:10 181:18 199:11 431:8 454:23 findings 41:3 250:15,18 242:14 281:19 431:8 454:23 findings 41:3 251:4,5,13,18 339:24 355:1 fill 22:22 115:13 147:5 252:3,17 253:2 365:15,21 filled 22:1 147:16,16 253:4,10,24 384:4 439:22 79:16 479:20 235:2 237:6 258:8 261:17 526:9 533:20 483:14 530:16 242:4 243:4 261:21,24 feels 132:23 534:7 252:17 255:6	fda 5:22 7:1	10:11 44:16,16	fifth 138:14	104:2 143:14
41:1 91:5,23 193:24 104:8 327:4 298:15,20 92:15 94:4 265:14 482:23 400:21 401:6 299:4 314:4,11 242:4 243:4,13 265:14 482:23 498:2 315:15,17 243:17,24 489:9 531:20 figures 116:11 316:18 327:18 244:6 245:13 533:6,13 534:2 301:12 353:6,22 246:1 247:3,24 feel 32:15 133:1 file 470:11 392:12 412:17 248:23 250:10 181:18 199:11 filed 163:11 412:18 250:15,18 242:14 281:19 431:8 454:23 findings 41:3 251:4,5,13,18 339:24 355:1 fill 22:22 115:13 147:5 252:3,17 253:2 365:15,21 filled 22:1 147:16,16 253:4,10,24 384:4 439:22 final 51:15 182:10 229:20 254:9 257:19 452:2 525:16 79:16 479:20 235:2 237:6 258:8 261:17 526:9 533:20 483:14 530:16 242:4 243:4 261:21,24 feels 132:23 534:7 252:17 255:6	35:13,22 36:1,4	52:9 54:17	figure 17:24	260:24 294:8
92:15 94:4 federal 11:9 400:21 401:6 299:4 314:4,11 242:4 243:4,13 265:14 482:23 498:2 315:15,17 243:17,24 489:9 531:20 figures 116:11 316:18 327:18 244:6 245:13 533:6,13 534:2 301:12 353:6,22 246:1 247:3,24 feel 32:15 133:1 file 470:11 392:12 412:17 248:23 250:10 181:18 199:11 filed 163:11 412:18 250:15,18 242:14 281:19 431:8 454:23 findings 41:3 251:4,5,13,18 339:24 355:1 fill 22:22 115:13 147:5 252:3,17 253:2 365:15,21 filled 22:1 147:16,16 253:4,10,24 384:4 439:22 final 51:15 182:10 229:20 254:9 257:19 452:2 525:16 79:16 479:20 235:2 237:6 258:8 261:17 526:9 533:20 483:14 530:16 242:4 243:4 261:21,24 feels 132:23 534:7 252:17 255:6	36:10,13,14,17	55:20 56:1	18:22 101:2,2	295:2,17
242:4 243:4,13 265:14 482:23 498:2 315:15,17 243:17,24 489:9 531:20 figures 116:11 316:18 327:18 244:6 245:13 533:6,13 534:2 301:12 353:6,22 246:1 247:3,24 feel 32:15 133:1 file 470:11 392:12 412:17 248:23 250:10 181:18 199:11 filed 163:11 412:18 250:15,18 242:14 281:19 431:8 454:23 findings 41:3 251:4,5,13,18 339:24 355:1 fill 22:22 115:13 147:5 252:3,17 253:2 365:15,21 filled 22:1 147:16,16 253:4,10,24 384:4 439:22 final 51:15 182:10 229:20 254:9 257:19 452:2 525:16 79:16 479:20 235:2 237:6 258:8 261:17 526:9 533:20 483:14 530:16 242:4 243:4 261:21,24 feels 132:23 534:7 252:17 255:6	41:1 91:5,23	193:24	104:8 327:4	298:15,20
243:17,24 489:9 531:20 figures 116:11 316:18 327:18 244:6 245:13 533:6,13 534:2 301:12 353:6,22 246:1 247:3,24 feel 32:15 133:1 file 470:11 392:12 412:17 248:23 250:10 181:18 199:11 filed 163:11 412:18 250:15,18 242:14 281:19 431:8 454:23 findings 41:3 251:4,5,13,18 339:24 355:1 fill 22:22 115:13 147:5 252:3,17 253:2 365:15,21 filled 22:1 147:16,16 253:4,10,24 384:4 439:22 final 51:15 182:10 229:20 254:9 257:19 452:2 525:16 79:16 479:20 235:2 237:6 258:8 261:17 526:9 533:20 483:14 530:16 242:4 243:4 261:21,24 feels 132:23 534:7 252:17 255:6	92:15 94:4	federal 11:9	400:21 401:6	299:4 314:4,11
244:6 245:13 533:6,13 534:2 301:12 353:6,22 246:1 247:3,24 feel 32:15 133:1 file 470:11 392:12 412:17 248:23 250:10 181:18 199:11 filed 163:11 412:18 250:15,18 242:14 281:19 431:8 454:23 findings 41:3 251:4,5,13,18 339:24 355:1 fill 22:22 115:13 147:5 252:3,17 253:2 365:15,21 filled 22:1 147:16,16 253:4,10,24 384:4 439:22 final 51:15 182:10 229:20 254:9 257:19 452:2 525:16 79:16 479:20 235:2 237:6 258:8 261:17 526:9 533:20 483:14 530:16 242:4 243:4 261:21,24 feels 132:23 534:7 252:17 255:6	242:4 243:4,13	265:14 482:23	498:2	315:15,17
246:1 247:3,24 feel 32:15 133:1 file 470:11 392:12 412:17 248:23 250:10 181:18 199:11 filed 163:11 412:18 250:15,18 242:14 281:19 431:8 454:23 findings 41:3 251:4,5,13,18 339:24 355:1 fill 22:22 115:13 147:5 252:3,17 253:2 365:15,21 filled 22:1 147:16,16 253:4,10,24 384:4 439:22 final 51:15 182:10 229:20 254:9 257:19 452:2 525:16 79:16 479:20 235:2 237:6 258:8 261:17 526:9 533:20 483:14 530:16 242:4 243:4 261:21,24 feels 132:23 534:7 252:17 255:6	243:17,24	489:9 531:20	figures 116:11	316:18 327:18
248:23 250:10 181:18 199:11 filed 163:11 412:18 250:15,18 242:14 281:19 431:8 454:23 findings 41:3 251:4,5,13,18 339:24 355:1 fill 22:22 115:13 147:5 252:3,17 253:2 365:15,21 filled 22:1 147:16,16 253:4,10,24 384:4 439:22 final 51:15 182:10 229:20 254:9 257:19 452:2 525:16 79:16 479:20 235:2 237:6 258:8 261:17 526:9 533:20 483:14 530:16 242:4 243:4 261:21,24 feels 132:23 534:7 252:17 255:6	244:6 245:13	533:6,13 534:2	301:12	353:6,22
250:15,18 242:14 281:19 431:8 454:23 findings 41:3 251:4,5,13,18 339:24 355:1 fill 22:22 115:13 147:5 252:3,17 253:2 365:15,21 filled 22:1 147:16,16 253:4,10,24 384:4 439:22 final 51:15 182:10 229:20 254:9 257:19 452:2 525:16 79:16 479:20 235:2 237:6 258:8 261:17 526:9 533:20 483:14 530:16 242:4 243:4 261:21,24 feels 132:23 534:7 252:17 255:6	246:1 247:3,24	feel 32:15 133:1	file 470:11	392:12 412:17
251:4,5,13,18 339:24 355:1 fill 22:22 115:13 147:5 252:3,17 253:2 365:15,21 filled 22:1 147:16,16 253:4,10,24 384:4 439:22 final 51:15 182:10 229:20 254:9 257:19 452:2 525:16 79:16 479:20 235:2 237:6 258:8 261:17 526:9 533:20 483:14 530:16 242:4 243:4 261:21,24 feels 132:23 534:7 252:17 255:6	248:23 250:10	181:18 199:11	filed 163:11	412:18
252:3,17 253:2 365:15,21 filled 22:1 147:16,16 253:4,10,24 384:4 439:22 final 51:15 182:10 229:20 254:9 257:19 452:2 525:16 79:16 479:20 235:2 237:6 258:8 261:17 526:9 533:20 483:14 530:16 242:4 243:4 261:21,24 feels 132:23 534:7 252:17 255:6	250:15,18	242:14 281:19	431:8 454:23	findings 41:3
253:4,10,24 384:4 439:22 final 51:15 182:10 229:20 254:9 257:19 452:2 525:16 79:16 479:20 235:2 237:6 258:8 261:17 526:9 533:20 483:14 530:16 242:4 243:4 261:21,24 feels 132:23 534:7 252:17 255:6	251:4,5,13,18	339:24 355:1	fill 22:22	115:13 147:5
254:9 257:19 452:2 525:16 79:16 479:20 235:2 237:6 258:8 261:17 526:9 533:20 483:14 530:16 242:4 243:4 261:21,24 feels 132:23 534:7 252:17 255:6	252:3,17 253:2	365:15,21	filled 22:1	147:16,16
258:8 261:17 526:9 533:20 483:14 530:16 242:4 243:4 261:21,24 feels 132:23 534:7 252:17 255:6	253:4,10,24	384:4 439:22	final 51:15	182:10 229:20
261:21,24 feels 132:23 534:7 252:17 255:6	254:9 257:19	452:2 525:16	79:16 479:20	235:2 237:6
	258:8 261:17	526:9 533:20	483:14 530:16	242:4 243:4
262:8 15 18 533:15 18 finally 445:20 283:20 284:6	261:21,24	feels 132:23	534:7	252:17 255:6
202.6,13,10 233.13,10 Illustry 13.20 203.20 20 1.0	262:8,15,18	533:15,18	finally 445:20	283:20 284:6
263:8,19 287:13,15,18	263:8,19			287:13,15,18

[findings - form]

Page 40

			1 450 10
287:19 288:14	83:22 84:4	510:23 516:3	followed
288:18 293:22	94:18 96:20	520:7,10	229:15 230:2
294:13 303:23	98:23 99:1	530:22 539:6	325:1 458:9
310:7,8,10	103:23 110:3	five 8:10 111:17	505:2,5
318:12 324:9	128:1 131:10	492:8 527:23	following 86:5
337:24 347:14	132:7 134:5	527:24 528:10	96:14 128:21
369:16 370:14	143:10,17	528:13	456:2 484:12
388:15 391:14	167:15 182:4	fl 3:8	485:6 526:12
406:23 407:10	196:3 208:21	flawed 237:3	follows 12:6
412:17 427:14	231:1 232:7	281:16 282:2	218:6
436:16 458:11	245:17,23	324:7	food 436:4
504:4 505:11	247:21 249:15	flaws 303:3	footnote 243:8
fine 64:10 93:5	249:24 250:17	446:6	286:20,20
110:10,21,23	251:9,21	flew 19:12	409:16,23
127:1 199:13	255:10,24	flexible 417:18	444:4 468:22
199:15 257:23	259:13 269:21	flight 19:18	468:24,24
301:18 345:19	270:20 278:14	491:23 492:2	469:2 481:22
471:9	279:11 281:8	492:12	521:15 530:7
finish 14:4,7	281:19 290:5	fluid 43:6	force 8:14
32:9 105:14	291:16 296:8	fly 19:15	361:19 363:13
133:24 247:22	332:14 336:22	focus 24:3	363:19
finished 45:11	337:17,20	234:19 415:6	foregoing 539:8
208:17 264:14	338:9 339:5	focused 23:20	foreign 36:24
309:23 341:9	343:19 350:11	228:7 231:21	forget 466:16
354:12 417:14	350:22 363:3,6	234:22 235:4	forgot 14:13
finken 4:5	363:8 369:7	510:13	form 22:2,8,15
34:12,14	375:8 376:24	focusing 23:22	22:22 63:21
firms 59:4,15	378:3 380:4,5	145:15 163:23	119:2 149:15
59:18,21	400:3 406:11	220:3 340:17	150:15 151:4
first 13:20	407:6,10	fold 363:20	267:21 275:13
19:15 43:17	430:13 433:2	509:17,19	275:19 418:21
44:1,9,10 45:1	444:1 452:3	follow 30:19	419:4,14 423:9
45:16 47:9 49:2	454:22 467:11	296:2,8 298:24	423:22 424:11
49:7 56:6,19,21	467:22 473:19	407:3 426:16	424:19 425:17
56:23 63:5	483:8 487:16	514:6	427:10 428:7
67:21 76:1 77:8	500:9 501:20		428:19 429:9

[form - further]

Page	4	
	-	

429:17 432:6 494:16 495:10 507:4 524:2 517:8,13 519:3 433:13 434:7 495:21 499:1 foundation 134:14 320:18 fequent 7:13 437:2 439:3 404:17 468:17 469:19 143:5,16 153:2 440:2,17 441:1 forth 78:15 468:17 469:19 154:24 155:10 441:9 442:20 539:10 four 82:18 155:13 179:14 444:13 445:2,9 forthcoming 142:13 237:19 302:22 517:5 445:16 446:11 176:3,5,14 487:4 fequently 449:20 451:1,8 6rorum 97:24 fourth 484:3 frequently 451:13 452:7 343:6 forward 126:7 fragment 457:14 456:20 262:13 395:1 fragment 167:4 171:11 457:14 456:20 262:13 395:1 framework firied 80:5 457:14 456:20 505:2 534:2 do6:11,19 297:5 368:1 460:12 461:15 found 117:9 408:17 473:10 474:19 463:20 466:10 164:23 165:2,2 free 32:15 516:20 464:20 465:7 165:8,10 106:24 181:18 126:19	[
435:10 436:1 formal 404:12 134:14 320:18 frequent 7:13 437:2 439:3 404:17 404:17 411:15 466:19 143:5,16 153:2 440:2,17 441:1 forth 78:15 468:17 469:19 154:24 155:10 155:13 179:14 441:9 442:20 539:10 four 82:18 155:13 179:14 302:22 517:5 444:13 445:2,9 forthcoming 142:13 237:19 302:22 517:5 352:10 356:16 487:4 487:4 frequently 449:20 451:1,8 forum 97:24 fourth 484:3 frequently 375:18 434:10 77:38 75:18 434:10 77:38 75:18 434:10 77:38 75:18 434:10 77:38 75:18 434:10 77:38 77:38 75:18 434:10 77:38	429:17 432:6	494:16 495:10	507:4 524:2	517:8,13 519:3
437:2 439:3 404:17 411:15 466:19 143:5,16 153:2 440:2,17 441:1 forth 78:15 468:17 469:19 154:24 155:10 444:19 442:20 539:10 four 82:18 155:13 179:14 444:13 445:2,9 forthcoming 142:13 237:19 302:22 517:5 445:16 446:11 176:3,5,14 352:10 356:16 518:8 447:14 448:9 212:2 381:19 fourth 484:3 frequently 449:20 451:1,8 forum 97:24 fourth 484:3 friday 530:24 452:23 453:13 forward 126:7 fourths 484:21 friday 530:24 455:14 456:20 262:13 395:1 framework friend 80:5 457:11 458:7 427:14 470:2 406:10 prime 484:21 459:8,20 460:2 505:2 534:2 406:11,19 297:5 368:1 460:12 461:15 found 117:9 408:17 437:10 474:19 461:24 462:16 122:23 142:2 236:7 500:5 506:16 465:15 466:6 185:12 244:22 242:14 339:24 126:19 153:8 466:19 468:6 244:23 259:9 355:1 365:15 336:22 339:5 <td>433:13 434:7</td> <td>495:21 499:1</td> <td>foundation</td> <td>521:9</td>	433:13 434:7	495:21 499:1	foundation	521:9
440:2,17 441:1 forth 78:15 468:17 469:19 154:24 155:10 441:9 442:20 539:10 four 82:18 155:13 179:14 444:13 445:2,9 forthcoming 176:3,5,14 352:10 356:16 518:8 447:14 448:9 212:2 381:19 487:4 frequently 449:20 451:1,8 forum 97:24 fourth 484:3 frequently 452:3 453:13 forward 126:7 fragment friday 530:24 455:14 456:20 262:13 395:1 framework 167:4 171:11 257:14 274:18 459:8,20 460:2 505:2 534:2 406:11,19 297:5 368:1 460:12 461:15 found 117:9 408:17 437:10 474:19 461:24 462:16 122:23 142:2 free 32:15 516:20 462:22 463:2,8 144:15 147:12 236:7 500:5 506:16 465:15 466:6 185:12 244:22 222:24 438:4 493:20 466:19 468:6 244:23 259:9 355:1 365:15 336:22 339:5 468:13 469:19 297:14 301:2 365:22<	435:10 436:1	formal 404:12	134:14 320:18	frequent 7:13
441:9 442:20 539:10 four 82:18 155:13 179:14 444:13 445:2,9 forthcoming 176:3,5,14 302:22 517:5 445:16 446:11 176:3,5,14 352:10 356:16 518:8 447:14 448:9 212:2 381:19 fourth 484:3 518:8 451:13 452:7 343:6 fourth 484:3 375:18 434:10 452:23 453:13 forward 126:7 fragment friday 530:24 455:14 456:20 262:13 395:1 framework 167:4 171:11 457:11 458:7 427:14 470:2 406:11,19 297:5 368:1 459:8,20 460:2 505:2 534:2 406:11,19 297:5 368:1 461:24 462:16 122:23 142:2 frankly 229:24 483:4 493:20 462:22 463:2,8 144:15 147:12 236:7 500:5 506:16 463:20 464:10 164:23 165:2,2 free 32:15 516:20 468:13 469:19 297:14 301:2 355:1 365:15 36:22 339:5 470:14 472:6 342:20 346:17 freight 127:6 440:5 501:20 475:18 476:14 352:16,20 119:24 120:5 510:23 516:3	437:2 439:3	404:17	411:15 466:19	143:5,16 153:2
444:13 445:2,9 forthcoming 142:13 237:19 302:22 517:5 445:16 446:11 176:3,5,14 352:10 356:16 518:8 447:14 448:9 212:2 381:19 forum 97:24 fourth 484:3 375:18 434:10 451:13 452:7 343:6 fourth 484:21 friday 530:24 452:23 453:13 forward 126:7 fragment 206:10 froint 15:18 455:14 456:20 262:13 395:1 framework 167:4 171:11 457:11 458:7 427:14 470:2 405:9,11,14 257:14 274:18 459:8,20 460:2 505:2 534:2 406:11,19 297:5 368:1 460:12 461:15 found 117:9 408:17 437:10 474:19 461:24 462:16 164:23 165:2,2 free 32:15 500:5 506:16 463:20 464:10 164:23 165:2,2 free 32:15 516:20 468:13 469:19 297:14 301:2 355:1 365:15 363:2 339:5 470:14 472:6 342:20 346:17 freight 127:6 440:5 501:20 475:18 476:14 352:16,20 119:24 120:5 510:23 516:3 479:14 480:12 355:18 356:4	440:2,17 441:1	forth 78:15	468:17 469:19	154:24 155:10
445:16 446:11 176:3,5,14 352:10 356:16 518:8 447:14 448:9 212:2 381:19 487:4 frequently 449:20 451:1,8 343:6 fourth 484:3 375:18 434:10 451:13 452:7 343:6 fourths 484:21 friday 530:24 452:23 453:13 forward 126:7 fragment friend 80:5 453:22 455:6 128:21 158:14 206:10 front 15:18 455:14 456:20 262:13 395:1 framework 167:4 171:11 457:11 458:7 427:14 470:2 405:9,11,14 257:14 274:18 459:8,20 460:2 505:2 534:2 406:11,19 297:5 368:1 460:12 461:15 found 117:9 408:17 437:10 474:19 461:24 462:16 122:23 142:2 frankly 229:24 483:4 493:20 462:22 463:2,8 144:15 147:12 236:7 500:5 506:16 465:15 466:6 185:12 244:22 242:14 339:24 126:19 153:8 466:19 468:6 244:23 259:9 355:1 365:15 336:22 339:5 470:14 472:6 342:20 346:17 frequency 510:23 516:3	441:9 442:20	539:10	four 82:18	155:13 179:14
447:14 448:9 212:2 381:19 487:4 frequently 449:20 451:1,8 343:6 fourth 484:3 375:18 434:10 451:13 452:7 343:6 fourths 484:21 friday 530:24 452:23 453:13 forward 126:7 fragment friend 80:5 453:22 455:6 128:21 158:14 206:10 front 15:18 455:14 456:20 262:13 395:1 framework 167:4 171:11 457:11 458:7 427:14 470:2 405:9,11,14 257:14 274:18 459:8,20 460:2 505:2 534:2 406:11,19 297:5 368:1 460:12 461:15 found 117:9 408:17 437:10 474:19 461:24 462:16 122:23 142:2 frankly 229:24 483:4 493:20 462:22 463:2,8 144:15 147:12 236:7 500:5 506:16 463:20 464:10 164:23 165:2,2 free 32:15 516:20 466:19 468:6 244:23 259:9 355:1 365:15 336:22 339:5 468:13 469:19 297:14 301:2 365:22 363:3 438:18 470:14 472:6 342:20 346:17 freight 127:6 40:5 501:20 <	444:13 445:2,9	forthcoming	142:13 237:19	302:22 517:5
449:20 451:1,8 forum 97:24 fourth 484:3 375:18 434:10 451:13 452:7 343:6 fourths 484:21 friday 530:24 452:23 453:13 forward 126:7 fragment friend 80:5 453:22 455:6 128:21 158:14 206:10 front 15:18 455:14 456:20 262:13 395:1 framework 167:4 171:11 457:11 458:7 427:14 470:2 405:9,11,14 257:14 274:18 459:8,20 460:2 505:2 534:2 406:11,19 297:5 368:1 460:12 461:15 found 117:9 408:17 437:10 474:19 461:24 462:16 122:23 142:2 frankly 229:24 483:4 493:20 462:22 463:2,8 144:15 147:12 236:7 500:5 506:16 463:20 464:10 164:23 165:2,2 free 32:15 516:20 466:19 468:6 244:23 259:9 355:1 365:15 336:22 339:5 468:13 469:19 297:14 301:2 365:22 363:3 438:18 470:14 472:6 342:20 346:17 freight	445:16 446:11	176:3,5,14	352:10 356:16	518:8
451:13 452:7 343:6 forward 126:7 fragment friend 80:5 453:22 455:6 128:21 158:14 206:10 front 15:18 455:14 456:20 262:13 395:1 framework 167:4 171:11 457:11 458:7 427:14 470:2 405:9,11,14 257:14 274:18 459:8,20 460:2 505:2 534:2 406:11,19 297:5 368:1 460:12 461:15 found 117:9 408:17 437:10 474:19 461:24 462:16 122:23 142:2 frankly 229:24 483:4 493:20 462:22 463:2,8 144:15 147:12 236:7 500:5 506:16 463:20 464:10 164:23 165:2,2 free 32:15 516:20 466:19 468:6 185:12 244:22 242:14 339:24 126:19 153:8 466:19 468:6 244:23 259:9 355:1 365:15 336:22 339:5 470:14 472:6 342:20 346:17 freight 127:6 40:5 501:20 473:16 474:2 350:17,18,24 119:24 120:5 funded 411:16 475:18 476:14 352:16,20 122:12 151:1	447:14 448:9	212:2 381:19	487:4	frequently
452:23 453:13 forward 126:7 fragment friend 80:5 453:22 455:6 128:21 158:14 206:10 front 15:18 455:14 456:20 262:13 395:1 framework 167:4 171:11 457:11 458:7 427:14 470:2 405:9,11,14 257:14 274:18 459:8,20 460:2 505:2 534:2 406:11,19 297:5 368:1 460:12 461:15 found 117:9 408:17 437:10 474:19 461:24 462:16 122:23 142:2 frankly 229:24 483:4 493:20 462:22 463:2,8 144:15 147:12 236:7 500:5 506:16 463:20 464:10 165:8,10 106:24 181:18 full 12:13 465:15 466:6 185:12 244:22 242:14 339:24 126:19 153:8 336:22 339:5 468:13 469:19 297:14 301:2 365:22 363:3 438:18 126:19 153:8 470:14 472:6 342:20 346:17 freight 127:6 440:5 501:20 473:16 474:2 350:17,18,24 119:24 120:5 funded 411:16 475:18 476:14 352:16,20 122	449:20 451:1,8	forum 97:24	fourth 484:3	375:18 434:10
453:22 455:6 128:21 158:14 206:10 front 15:18 455:14 456:20 262:13 395:1 405:9,11,14 257:14 274:18 457:11 458:7 427:14 470:2 406:11,19 297:5 368:1 459:8,20 460:2 505:2 534:2 406:11,19 297:5 368:1 460:12 461:15 found 117:9 408:17 437:10 474:19 461:24 462:16 122:23 142:2 500:5 506:16 437:10 474:19 462:22 463:2,8 144:15 147:12 236:7 500:5 506:16 463:20 464:10 164:23 165:2,2 free 32:15 516:20 464:20 465:7 165:8,10 106:24 181:18 full 12:13 465:15 466:6 185:12 244:22 242:14 339:24 126:19 153:8 466:19 468:6 244:23 259:9 355:1 365:15 336:22 339:5 468:13 469:19 297:14 301:2 365:22 363:3 438:18 470:14 472:6 342:20 346:17 freight 127:6 440:5 501:20 473:16 474:2 350:17,18,24 119:24 120:5 funded 411:16 475:18 476:14 352:16,20 151:20 154:1 442:16 460:19	451:13 452:7	343:6	fourths 484:21	friday 530:24
455:14 456:20 262:13 395:1 framework 167:4 171:11 457:11 458:7 427:14 470:2 405:9,11,14 257:14 274:18 459:8,20 460:2 505:2 534:2 406:11,19 297:5 368:1 460:12 461:15 found 117:9 408:17 437:10 474:19 461:24 462:16 122:23 142:2 frankly 229:24 483:4 493:20 462:22 463:2,8 144:15 147:12 236:7 500:5 506:16 463:20 464:10 164:23 165:2,2 free 32:15 516:20 464:20 465:7 165:8,10 106:24 181:18 full 12:13 466:19 468:6 244:23 259:9 355:1 365:15 336:22 339:5 468:13 469:19 297:14 301:2 365:22 363:3 438:18 470:14 472:6 342:20 346:17 freight 127:6 440:5 501:20 472:20 473:5 347:17 348:10 19:24 120:5 funded 411:16 475:18 476:14 352:16,20 151:20 154:1 442:16 460:19 479:14 480:12 355:18 356:4 154:17,24 197:8 411:1,11 480:18 481:15 367:2 370:20 209:16 369:21 197:15 <td>452:23 453:13</td> <td>forward 126:7</td> <td>fragment</td> <td>friend 80:5</td>	452:23 453:13	forward 126:7	fragment	friend 80:5
457:11 458:7 427:14 470:2 405:9,11,14 257:14 274:18 459:8,20 460:2 505:2 534:2 406:11,19 297:5 368:1 460:12 461:15 found 117:9 408:17 437:10 474:19 461:24 462:16 122:23 142:2 frankly 229:24 483:4 493:20 462:22 463:2,8 144:15 147:12 236:7 500:5 506:16 463:20 464:10 164:23 165:2,2 free 32:15 516:20 464:20 465:7 165:8,10 106:24 181:18 full 12:13 466:19 468:6 244:23 259:9 355:1 365:15 336:22 339:5 468:13 469:19 297:14 301:2 365:22 363:3 438:18 470:14 472:6 342:20 346:17 freight 127:6 40:5 501:20 472:20 473:5 347:17 348:10 frequency 510:23 516:3 473:16 474:2 350:17,18,24 119:24 120:5 funded 411:16 475:18 476:14 352:16,20 122:12 151:1 442:16 460:19 479:14 480:12 355:18 356:4 154:17,24 197:8 411:1,11 480:18 481:15 367:2 370:20 386:18 434:1 further 5:6	453:22 455:6	128:21 158:14	206:10	front 15:18
459:8,20 460:2 505:2 534:2 406:11,19 297:5 368:1 460:12 461:15 found 117:9 408:17 437:10 474:19 461:24 462:16 122:23 142:2 frankly 229:24 483:4 493:20 462:22 463:2,8 144:15 147:12 236:7 500:5 506:16 463:20 464:10 164:23 165:2,2 free 32:15 516:20 464:20 465:7 165:8,10 106:24 181:18 full 12:13 466:19 468:6 244:23 259:9 355:1 365:15 336:22 339:5 468:13 469:19 297:14 301:2 365:22 363:3 438:18 470:14 472:6 342:20 346:17 freight 127:6 40:5 501:20 473:16 474:2 350:17,18,24 119:24 120:5 10:23 516:3 473:14 479:5 353:17 354:22 151:20 154:1 442:16 460:19 479:14 480:12 355:18 356:4 154:17,24 197:8 411:1,11 480:18 481:15 367:2 370:20 209:16 369:21 197:15 488:17,24 446:20 482:3,8 446:1,8 498:11 46:5 55:15 66:7 489:6 490:3,13 495:19,22 498:12,14,17 218:6 367:	455:14 456:20	262:13 395:1	framework	167:4 171:11
460:12 461:15 found 117:9 408:17 437:10 474:19 461:24 462:16 122:23 142:2 frankly 229:24 483:4 493:20 462:22 463:2,8 144:15 147:12 236:7 500:5 506:16 463:20 464:10 164:23 165:2,2 free 32:15 516:20 464:20 465:7 165:8,10 106:24 181:18 full 12:13 465:15 466:6 185:12 244:22 242:14 339:24 126:19 153:8 466:19 468:6 244:23 259:9 355:1 365:15 336:22 339:5 468:13 469:19 297:14 301:2 365:22 363:3 438:18 470:14 472:6 342:20 346:17 freight 127:6 440:5 501:20 473:16 474:2 350:17,18,24 510:23 516:3 510:23 516:3 510:23 516:3 475:18 476:14 352:16,20 122:12 151:1 442:16 460:19 42:16 460:19 479:14 480:12 355:18 356:4 154:17,24 197:8 411:1,11 197:8 411:1,11 482:5 485:21 367:2 370:20 209:16 369:21 197:15 46:5 55:15 66:7 489:6 490:3,13 <	457:11 458:7	427:14 470:2	405:9,11,14	257:14 274:18
461:24 462:16 122:23 142:2 frankly 229:24 483:4 493:20 462:22 463:2,8 144:15 147:12 236:7 500:5 506:16 463:20 464:10 164:23 165:2,2 free 32:15 516:20 464:20 465:7 165:8,10 106:24 181:18 126:19 153:8 465:15 466:6 185:12 244:22 242:14 339:24 126:19 153:8 466:19 468:6 244:23 259:9 355:1 365:15 336:22 339:5 468:13 469:19 297:14 301:2 365:22 363:3 438:18 470:14 472:6 342:20 346:17 freight 127:6 440:5 501:20 472:20 473:5 347:17 348:10 frequency 510:23 516:3 473:16 474:2 350:17,18,24 119:24 120:5 funded 411:16 475:18 476:14 352:16,20 122:12 151:1 442:16 460:19 479:14 480:12 355:18 356:4 154:17,24 197:8 411:1,11 480:18 481:15 367:2 370:20 209:16 369:21 fundings 487:22 488:7 390:11,12 386:18 434:1 46:5 55:15 66:7 488:17,24 446:20 482:3,8 446:1,8 498:11	459:8,20 460:2	505:2 534:2	406:11,19	297:5 368:1
462:22 463:2,8 144:15 147:12 236:7 500:5 506:16 463:20 464:10 164:23 165:2,2 free 32:15 516:20 464:20 465:7 165:8,10 106:24 181:18 full 12:13 465:15 466:6 185:12 244:22 242:14 339:24 126:19 153:8 466:19 468:6 244:23 259:9 355:1 365:15 336:22 339:5 468:13 469:19 297:14 301:2 365:22 363:3 438:18 470:14 472:6 342:20 346:17 freight 127:6 440:5 501:20 473:16 474:2 350:17,18,24 119:24 120:5 funded 411:16 475:18 476:14 352:16,20 122:12 151:1 442:16 460:19 479:14 480:12 355:18 356:4 154:17,24 197:8 411:1,11 480:18 481:15 366:12,16 181:11 189:18 197:15 487:22 488:7 390:11,12 386:18 434:1 further 5:6 488:17,24 446:20 482:3,8 446:1,8 498:11 46:5 55:15 66:7 489:6 490:3,13 495:19,22 498:12,14,17 218:6 367:21	460:12 461:15	found 117:9	408:17	437:10 474:19
463:20 464:10 164:23 165:2,2 free 32:15 516:20 464:20 465:7 165:8,10 106:24 181:18 full 12:13 465:15 466:6 185:12 244:22 242:14 339:24 126:19 153:8 466:19 468:6 244:23 259:9 355:1 365:15 336:22 339:5 468:13 469:19 297:14 301:2 365:22 363:3 438:18 470:14 472:6 342:20 346:17 freight 127:6 440:5 501:20 472:20 473:5 347:17 348:10 frequency 510:23 516:3 473:16 474:2 350:17,18,24 119:24 120:5 funded 411:16 475:18 476:14 352:16,20 122:12 151:1 442:16 460:19 479:14 480:12 353:17 354:22 151:20 154:1 funding 197:3 479:14 480:12 355:18 356:4 154:17,24 197:8 411:1,11 480:18 481:15 367:2 370:20 209:16 369:21 197:15 487:22 488:7 390:11,12 386:18 434:1 46:5 55:15 66:7 488:17,24 446:20 482:3,8 446:1,8 498:11 46:5 55:15 66:7 489:6 490:3,13 495:19,22 498:12,14,17 <t< td=""><td>461:24 462:16</td><td>122:23 142:2</td><td>frankly 229:24</td><td>483:4 493:20</td></t<>	461:24 462:16	122:23 142:2	frankly 229:24	483:4 493:20
464:20 465:7 165:8,10 106:24 181:18 full 12:13 465:15 466:6 185:12 244:22 242:14 339:24 126:19 153:8 466:19 468:6 244:23 259:9 355:1 365:15 336:22 339:5 468:13 469:19 297:14 301:2 365:22 363:3 438:18 470:14 472:6 342:20 346:17 freight 127:6 440:5 501:20 472:20 473:5 347:17 348:10 frequency 510:23 516:3 473:16 474:2 350:17,18,24 119:24 120:5 funded 411:16 475:18 476:14 352:16,20 122:12 151:1 442:16 460:19 478:14 479:5 353:17 354:22 151:20 154:1 funding 197:3 479:14 480:12 355:18 356:4 154:17,24 197:8 411:1,11 480:18 481:15 367:2 370:20 209:16 369:21 197:15 487:22 488:7 390:11,12 386:18 434:1 further 5:6 488:17,24 446:20 482:3,8 446:1,8 498:11 46:5 55:15 66:7 489:6 490:3,13 495:19,22 498:12,14,17 218:6 367:21	462:22 463:2,8	144:15 147:12	236:7	500:5 506:16
465:15 466:6 185:12 244:22 242:14 339:24 126:19 153:8 466:19 468:6 244:23 259:9 355:1 365:15 336:22 339:5 468:13 469:19 297:14 301:2 365:22 363:3 438:18 470:14 472:6 342:20 346:17 freight 127:6 440:5 501:20 472:20 473:5 347:17 348:10 frequency 510:23 516:3 473:16 474:2 350:17,18,24 119:24 120:5 funded 411:16 475:18 476:14 352:16,20 122:12 151:1 442:16 460:19 478:14 479:5 353:17 354:22 151:20 154:1 funding 197:3 479:14 480:12 355:18 356:4 154:17,24 197:8 411:1,11 480:18 481:15 367:2 370:20 209:16 369:21 197:15 487:22 488:7 390:11,12 386:18 434:1 further 5:6 488:17,24 446:20 482:3,8 446:1,8 498:11 46:5 55:15 66:7 489:6 490:3,13 495:19,22 498:12,14,17 218:6 367:21	463:20 464:10	164:23 165:2,2	free 32:15	516:20
466:19 468:6 244:23 259:9 355:1 365:15 336:22 339:5 468:13 469:19 297:14 301:2 365:22 363:3 438:18 470:14 472:6 342:20 346:17 440:5 501:20 472:20 473:5 347:17 348:10 510:23 516:3 473:16 474:2 350:17,18,24 119:24 120:5 510:23 516:3 475:18 476:14 352:16,20 122:12 151:1 442:16 460:19 478:14 479:5 353:17 354:22 151:20 154:1 funding 197:3 479:14 480:12 355:18 356:4 154:17,24 197:8 411:1,11 480:18 481:15 356:12,16 181:11 189:18 197:15 487:22 488:7 390:11,12 386:18 434:1 further 5:6 488:17,24 446:20 482:3,8 446:1,8 498:11 46:5 55:15 66:7 489:6 490:3,13 495:19,22 498:12,14,17 218:6 367:21	464:20 465:7	165:8,10	106:24 181:18	full 12:13
468:13 469:19 297:14 301:2 365:22 363:3 438:18 470:14 472:6 342:20 346:17 freight 127:6 440:5 501:20 472:20 473:5 347:17 348:10 510:23 516:3 510:23 516:3 473:16 474:2 350:17,18,24 119:24 120:5 119:24 120:5 119:24 120:5 119:24 120:5 119:24 120:5 119:24 120:5 119:24 120:5 120:212 151:1 119:24 120:5 120:212 151:1 120:212 15	465:15 466:6	185:12 244:22	242:14 339:24	126:19 153:8
470:14 472:6 342:20 346:17 freight 127:6 440:5 501:20 472:20 473:5 347:17 348:10 frequency 510:23 516:3 473:16 474:2 350:17,18,24 119:24 120:5 funded 411:16 475:18 476:14 352:16,20 122:12 151:1 442:16 460:19 478:14 479:5 353:17 354:22 151:20 154:1 funding 197:3 479:14 480:12 355:18 356:4 154:17,24 197:8 411:1,11 480:18 481:15 356:12,16 181:11 189:18 fundings 482:5 485:21 367:2 370:20 209:16 369:21 197:15 487:22 488:7 390:11,12 386:18 434:1 further 5:6 488:17,24 446:20 482:3,8 446:1,8 498:11 46:5 55:15 66:7 489:6 490:3,13 495:19,22 498:12,14,17 218:6 367:21	466:19 468:6	244:23 259:9	355:1 365:15	336:22 339:5
472:20 473:5 347:17 348:10 frequency 510:23 516:3 473:16 474:2 350:17,18,24 119:24 120:5 funded 411:16 475:18 476:14 352:16,20 122:12 151:1 442:16 460:19 478:14 479:5 353:17 354:22 151:20 154:1 funding 197:3 479:14 480:12 355:18 356:4 154:17,24 197:8 411:1,11 480:18 481:15 356:12,16 181:11 189:18 fundings 482:5 485:21 367:2 370:20 209:16 369:21 197:15 487:22 488:7 390:11,12 386:18 434:1 further 5:6 488:17,24 446:20 482:3,8 446:1,8 498:11 46:5 55:15 66:7 489:6 490:3,13 495:19,22 498:12,14,17 218:6 367:21	468:13 469:19	297:14 301:2	365:22	363:3 438:18
473:16 474:2 350:17,18,24 119:24 120:5 funded 411:16 475:18 476:14 352:16,20 122:12 151:1 442:16 460:19 478:14 479:5 353:17 354:22 151:20 154:1 funding 197:3 479:14 480:12 355:18 356:4 154:17,24 197:8 411:1,11 480:18 481:15 356:12,16 181:11 189:18 fundings 482:5 485:21 367:2 370:20 209:16 369:21 197:15 487:22 488:7 390:11,12 386:18 434:1 further 5:6 488:17,24 446:20 482:3,8 446:1,8 498:11 46:5 55:15 66:7 489:6 490:3,13 495:19,22 498:12,14,17 218:6 367:21	470:14 472:6	342:20 346:17	freight 127:6	440:5 501:20
475:18 476:14 352:16,20 122:12 151:1 442:16 460:19 478:14 479:5 353:17 354:22 151:20 154:1 funding 197:3 479:14 480:12 355:18 356:4 154:17,24 197:8 411:1,11 480:18 481:15 356:12,16 181:11 189:18 fundings 482:5 485:21 367:2 370:20 209:16 369:21 197:15 487:22 488:7 390:11,12 386:18 434:1 further 5:6 488:17,24 446:20 482:3,8 446:1,8 498:11 46:5 55:15 66:7 489:6 490:3,13 495:19,22 498:12,14,17 218:6 367:21	472:20 473:5	347:17 348:10	frequency	510:23 516:3
478:14 479:5 353:17 354:22 151:20 154:1 funding 197:3 479:14 480:12 355:18 356:4 154:17,24 197:8 411:1,11 480:18 481:15 356:12,16 181:11 189:18 fundings 482:5 485:21 367:2 370:20 209:16 369:21 197:15 487:22 488:7 390:11,12 386:18 434:1 further 5:6 488:17,24 446:20 482:3,8 446:1,8 498:11 46:5 55:15 66:7 489:6 490:3,13 495:19,22 498:12,14,17 218:6 367:21	473:16 474:2	350:17,18,24	119:24 120:5	funded 411:16
479:14 480:12 355:18 356:4 154:17,24 197:8 411:1,11 480:18 481:15 356:12,16 181:11 189:18 fundings 482:5 485:21 367:2 370:20 209:16 369:21 197:15 487:22 488:7 390:11,12 386:18 434:1 further 5:6 488:17,24 446:20 482:3,8 446:1,8 498:11 46:5 55:15 66:7 489:6 490:3,13 495:19,22 498:12,14,17 218:6 367:21	475:18 476:14	352:16,20	122:12 151:1	442:16 460:19
480:18 481:15 356:12,16 181:11 189:18 fundings 482:5 485:21 367:2 370:20 209:16 369:21 197:15 487:22 488:7 390:11,12 386:18 434:1 further 5:6 488:17,24 446:20 482:3,8 446:1,8 498:11 46:5 55:15 66:7 489:6 490:3,13 495:19,22 498:12,14,17 218:6 367:21	478:14 479:5	353:17 354:22	151:20 154:1	funding 197:3
482:5 485:21 367:2 370:20 209:16 369:21 197:15 487:22 488:7 390:11,12 386:18 434:1 further 5:6 488:17,24 446:20 482:3,8 446:1,8 498:11 46:5 55:15 66:7 489:6 490:3,13 495:19,22 498:12,14,17 218:6 367:21	479:14 480:12	355:18 356:4	154:17,24	197:8 411:1,11
487:22 488:7 390:11,12 386:18 434:1 further 5:6 488:17,24 446:20 482:3,8 446:1,8 498:11 46:5 55:15 66:7 489:6 490:3,13 495:19,22 498:12,14,17 218:6 367:21	480:18 481:15	356:12,16	181:11 189:18	fundings
488:17,24 446:20 482:3,8 446:1,8 498:11 46:5 55:15 66:7 489:6 490:3,13 495:19,22 498:12,14,17 218:6 367:21	482:5 485:21	367:2 370:20	209:16 369:21	197:15
489:6 490:3,13		· ·		further 5:6
	488:17,24	446:20 482:3,8	446:1,8 498:11	46:5 55:15 66:7
491:1,16 506:18,24 516:6,15 517:3 408:17 417:13	· · · · · · · · · · · · · · · · · · ·	<u>'</u>	· · ·	218:6 367:21
	491:1,16	506:18,24	516:6,15 517:3	408:17 417:13

[further - go]

Page 42

			C
441:24 442:5	genetics 34:4	gertig 6:19	giving 275:1
442:11 443:8	genital 5:18	179:22 180:2	311:7 356:2
443:11 489:21	6:11 8:1,4,18	237:15 261:10	471:3 523:8
500:3 535:17	8:20 9:1 10:4	283:7,9 284:7	gloves 356:8
539:7,12	10:21 11:4	286:15 290:9	go 17:7 20:23
future 212:9	81:10 89:15,20	294:1,20 295:2	21:11 29:9
215:19 393:7	90:2 91:16,24	295:7,10,17	33:17 34:10
g	140:16 141:10	296:12 299:4,6	41:19 44:3 47:3
g 12:1	141:21 142:5,8	299:8,18 300:7	47:10 59:17
	146:5,14 149:6	325:20,24	60:9 62:17,18
gain 402:3 gallardo 208:21	149:20 150:1,3	339:23	62:19 64:20
	150:10 159:16	getting 185:22	70:19 76:2
gates 7:20	165:3 167:23	185:23 342:8	87:16 92:6
296:9,13,22 297:4 298:15	168:4 184:22	give 14:5 18:12	94:18 102:9
298:20	209:23 223:7	67:4 109:15	103:24 107:14
	246:19 256:6	126:22 130:8	110:14,17,23
gather 427:7 gears 293:7	307:21 324:5	199:2 208:16	123:5,7 134:17
	334:6 335:13	214:23 295:9	138:19 139:16
gene 156:10	338:13 344:7	351:13 359:6	143:1,3 157:21
general 18:12 18:13 128:17	346:23 347:12	418:5 421:21	159:10 162:15
173:9 301:14	348:4 354:5	425:23 426:4	174:22 179:15
422:8 425:2	369:11,17,22	474:21,24	180:15 189:6
	370:15 372:1	527:11,22,23	200:12 215:10
generally 81:18	373:9 375:6	528:1,5,5,9,10	216:8 217:14
96:15 156:10	390:9 412:11	528:12	231:10,12
314:10 336:2	413:19 422:20	given 12:16	247:10,13,17
375:19	433:18 434:24	72:24 107:18	251:22 266:9
generated	446:22 454:12	108:6 142:9	272:4 276:4
392:19 393:2	456:16 462:21	145:11 303:1	278:13,14
393:13	463:13,17	310:21 354:2,4	279:14 288:5
generating 249:19	477:24 500:10	356:20 367:12	292:24 293:13
	524:23	388:11 389:23	295:20 310:2,8
genes 156:13	geology 308:24	390:10,12	313:2 327:3,5
geneticist	george 430:13	394:24 434:20	342:9 343:16
308:17	gerel 2:14 3:14	527:14 534:7	345:8,17,18
		534:23 535:11	347:23,24
	Golkow Te	1 1 .	I

[go - group] Page 43

349:12 353:22	67:13 68:24	431:6 432:14	grade 405:9,11
355:2,4,5	76:5,6 83:11	437:13 444:18	405:14 406:10
370:12 371:11	92:13 93:3 94:1	449:8 452:20	406:18 408:7
391:4 396:5,12	109:9 110:6,6	453:24 454:21	408:17 409:3,8
404:11 405:18	110:16,17,19	467:8 470:3	409:11,17,24
408:13 412:24	118:12 121:12	471:19 473:8	501:24
417:4 425:22	124:18 126:7	474:8 477:4,5	gradepro
426:4,16,19	131:7 132:16	480:17 481:2,3	405:19 406:14
430:2 432:12	133:18 145:17	484:1 491:22	grades 409:17
438:21 455:18	150:8 155:2,5	492:3,4,14,19	grand 4:18
467:21 468:19	166:21 171:1	493:6 497:11	grant 264:23
468:21 471:15	180:1 188:4	497:18,20	265:2,3
471:15,16	210:5,10,12,15	499:10 527:2	grants 265:9
487:8 489:20	216:14,15,20	527:11 528:9	graphical
490:19 491:22	217:4 235:17	529:9 533:4	400:20
493:9 497:21	246:17 256:17	534:13	graphs 344:3
499:13 511:5	260:7,8 263:21	gold 330:3	great 334:3
511:14 514:16	268:20 270:1	gonzalez	greater 104:15
526:22 528:24	275:9,21,24	503:21 504:8	107:8 152:5,7
532:18 533:3	278:23 280:14	504:18	153:13 164:20
goal 444:9	287:12 290:18	good 12:11,12	165:4 187:24
godleski 68:21	299:14 300:23	15:7 52:3 59:16	260:9 297:18
goes 25:10 38:9	301:11 312:20	255:16	298:1 313:10
126:9 185:4	314:2 316:24	goodman 170:5	316:8,11 331:6
221:24 256:12	321:19 326:12	gossett 8:22	450:15 457:3,8
261:4 283:7	344:19 349:10	373:24 473:22	498:15 517:6
284:7 347:21	355:4 359:4,4	gotten 216:7	518:12,15,23
365:6 423:1	359:21 361:16	government	greatest 130:16
424:23 441:21	372:1 377:12	35:19 267:12	151:10,12
467:13 487:2	395:1 401:13	488:21	155:20
going 13:22	402:2 407:14	government's	greenland
19:23 30:19	409:10 417:12	265:14	173:3 362:7
31:11,12 32:5	418:12 420:3,9	governmental	ground 15:8
42:7,12 44:3	420:13,14	35:17,18	group 21:5
51:10 56:6	421:5 422:6,13	411:14,16	71:24 191:18
60:18 66:21	422:16 430:2	480:6 489:9	192:23 211:21

[group - health]

Page 44

_			•
300:23 311:10	hand 85:18	12:3,11,15	170:20,22,23
403:20 409:17	86:20,21 95:10	15:23 16:24	171:9 438:8,20
414:1	96:9,9 124:22	20:3,11 42:7,15	439:14
grouping	125:10 163:7	44:8 60:22	harvard 277:2
300:14	163:10,20	76:16 77:4,5,13	438:9
groups 378:2	184:17 196:6	83:17 92:18	hazard 304:5
396:3,8	285:11,22	94:6 98:14	371:6,10
growing 307:12	330:14 336:22	161:20 166:24	372:24 373:2
guess 106:5	343:19 344:4	171:5 180:4	he'll 257:23
173:14,14,16	352:7 374:8,13	194:23 218:3	head 170:17
291:16 301:8	374:14 385:15	245:21 249:6	231:15 411:23
395:4 500:7	438:7,16	270:6 276:3	469:15 493:8
536:12	444:17 445:21	285:4 296:19	heading 484:16
guidance 292:9	449:6,24 478:5	326:16 332:18	health 5:24 6:1
guided 24:16	483:9 510:24	341:22 350:2	7:9 10:15 16:16
309:24 310:1	handed 98:19	354:18 361:22	23:18 24:8 25:3
guidelines	351:22	368:19 372:4	25:4 36:20 37:3
230:2	handles 261:24	373:17 379:7	37:6,9,19,23
gynecologic	hang 279:22	381:5 391:11	38:9,15,19,22
23:17,23 26:5	happen 264:7	398:4,10	39:4,13,17,21
69:13 190:5	284:3	417:16 432:19	39:24 41:14
193:9 305:3	happened	438:9,20	175:14 176:6
328:8 395:12	20:23 22:7	439:13 465:21	176:15,20
gynecologists	103:15 514:16	471:5 476:19	179:21 182:15
190:5	happening	499:20 500:6	191:2 242:1
h	389:22	516:7 522:14	243:17 245:8
h 397:3	happens 313:10	535:3 538:19	261:6 265:9,14
habit 435:1	379:14	harlow's 5:10	271:9 272:13
	happy 31:8	harm 224:13	282:2 284:15
449:16 505:18 habits 176:8	118:24 351:5	harmful 434:21	284:20 285:13
	493:18	harmonization	287:2 289:14
habitual 504:21	hardy 4:16	522:23	289:16 293:23
505:18	harlow 1:13	harmonize	295:21 296:10
half 325:9	2:12 5:2,8,11	521:21 522:7	304:3 323:18
391:1	5:12,16 6:17	hartge 6:17	367:16 391:3
	10:10,13,20	10:20 129:15	410:17,21
	College To		I .

[health - hegarty]

Page 45

			\mathcal{E}
411:2,11,14,18	70:20 72:10	161:16,22	246:6,7 247:9
441:7,17	73:6 74:24 76:2	162:12 163:4	247:13,17,19
442:13 483:17	76:11,17 77:3	164:22 166:14	248:15,19,22
483:19,21	83:13,18 84:21	166:20 167:3	249:3,10
489:21 490:10	86:24 88:2,11	167:11,14,18	250:12 255:9
491:10 496:4	88:14 92:13,20	171:1,7 175:20	255:12,18,23
healthy 146:4	93:23 94:7	175:24 176:12	257:1,9,18,23
392:18	97:19 98:6,18	179:3,15,19	258:7 263:7,17
hear 34:8,12,13	98:22 100:11	180:1,5 181:1	264:5 266:1,17
438:24	100:24 102:1	181:16,23	267:14,24
heard 40:2	102:21 103:17	183:18 184:4	270:1,8 271:22
218:13 224:15	105:6,13 106:3	184:13 186:1	272:23 273:16
453:4 473:22	107:5,15 108:2	187:14 190:18	274:5,9,12,20
480:4	108:23 109:13	190:22 191:3,8	275:7,11,20
hearing 223:3	109:17 110:1,9	192:10 193:8	276:6 277:14
224:4 438:24	110:12,21	194:18,24	278:9 279:8
heavily 409:4,9	111:1,16 117:4	198:2,23	284:22 285:1,6
hegarty 4:17	117:15,21	199:18,22	285:19,21,24
5:3,6 12:10	118:11,22	200:1,4 201:11	288:2 289:3,20
14:4,6,10,14	119:2,7,12,16	202:1,7,11,16	291:9 292:20
15:20,24 18:14	119:18 121:4	202:18 203:5	292:24 293:4,6
18:20 19:23	121:23 123:4	203:14 204:3,7	293:15 296:6
20:6,9 21:1,4,8	123:14,19,21	210:13,18,22	296:15,20
21:11,15 27:16	124:1,7,11,21	210:24 214:7	300:15 301:13
27:20 30:8,12	127:10 131:9	214:24 216:21	301:18,22,24
30:18,22 31:9	132:20 133:14	217:14 218:8	305:20 306:12
31:14 32:20	133:19,23	218:10 219:17	311:24 313:12
34:10,16 38:14	135:19 136:16	220:14 222:13	314:1,24 315:7
40:17 41:8,22	137:5,12 138:9	223:4,18 224:1	315:20 317:8
42:6,12,17 44:2	139:7,15,20,22	225:16 226:2	318:15 320:20
44:7 45:12,24	141:19 143:2	231:11 232:20	322:14 325:15
46:17 58:18,19	146:12 148:24	239:8,11,15,19	326:12,18
59:8 60:18,23	149:18 150:23	239:22 240:16	327:23 330:13
62:19,23 63:12	151:15 152:8	241:3 242:21	332:13,22
63:16,17 64:2	152:17 156:8	243:1,15,23	335:6 340:7
64:22 67:2,6,12	160:6,13 161:7	245:12,22	341:11,15,19

[hegarty - hill] Page 46

			,
341:23 342:10	421:2,14,18,23	473:15 474:1	536:12
342:13,15	422:2 423:8,21	474:16,23	held 2:12 36:3
343:23 346:1,5	424:10,18	475:17 476:13	help 148:4
346:11,13	425:16,23	477:7,9 478:13	210:10 242:19
349:10,16,22	426:9,12 427:9	479:4,13,24	helpful 14:24
350:4 351:10	428:6,18 429:8	480:11,17,23	henderson
351:17,22	429:16 432:5	481:5,14 482:4	444:19
352:3,4 355:5	433:12 434:6	483:1,6 484:11	hereof 538:11
355:11,13	435:9,24 437:1	484:15,18,22	heritage 158:24
357:3 358:12	437:17,19	485:20 486:2	hesitant 506:7
358:16,20	438:1 439:2	487:21 488:6	heterogeneity
359:3,9,12,15	440:1,16,24	488:16,23	326:20 371:12
359:21,23	441:8 442:19	489:5,15 490:2	375:3 404:14
360:23 361:16	444:12 445:1,8	490:12,24	404:20
361:23 365:19	445:15 446:10	491:15,20	high 400:24
366:5 368:16	447:13 448:8	492:1,10,13,18	402:6 403:8
368:21 373:14	449:19 450:24	493:1 494:15	404:13 498:18
373:18 376:6	451:7,12 452:6	495:9,20	501:24
376:11,14,19	452:18,22	498:24 499:13	higher 167:23
376:22 377:3,7	453:12,21	499:17 500:4	348:17 367:22
377:12,18,22	454:2,6 455:5	501:6,10,12,18	highest 152:16
379:3,10	455:13 456:19	502:22 513:9	286:7 314:7
380:22 383:11	457:10 458:6	514:10,23	348:1,1,17,21
384:12 385:4	459:7,19 460:1	517:17 518:18	386:12 457:2
391:4,8,10	460:11 461:14	519:22 520:20	496:5
394:17 395:9	461:23 462:15	521:4 522:21	highlight
396:19 397:18	463:1,7,19	523:10,15	168:12
398:1,6,11	464:9,14,19	525:5,24 526:7	highlighted
401:12 403:2	465:6,14,18	526:11,17,22	375:21
406:4,9 409:13	466:5,18	527:1,10,17,21	highlighting
410:14 412:20	467:15 468:5	528:7,12,14	361:24 362:1
413:3,12 417:4	468:12,16	529:2,19	highly 183:14
417:8,20	469:18 470:13	530:10 532:3	404:8 462:22
418:20 419:3	470:16,21,24	532:19 533:1	hilary 208:20
419:13 420:2,6	471:4,7 472:5	534:12,22	hill 229:6
420:9,16,22	472:19 473:4	535:23 536:4,8	230:24 231:19

[hill - identification]

Page 47

	_		2
231:24 232:15	328:4,4,6,12,13	334:8,10	hypothesized
232:23 234:6	houghton 301:5	335:20 337:12	223:14
459:13 490:20	302:10 303:23	338:8 340:13	hypothetical
hired 34:22	hour 17:15,23	341:14 342:2,7	412:14 413:5
35:2 193:10	18:22 49:3,11	343:18 350:3	hysterectomy
histologic 7:19	60:7 292:23	357:7 362:3	126:5 184:10
140:12 141:5	hourly 49:5	369:6 370:19	256:8 335:17
142:1 144:21	hours 25:22,24	374:7,10	344:9,13
227:22 334:17	49:10 53:6,16	385:13 398:5	346:16,24
history 159:3,6	55:19,24 56:5	400:2 405:12	412:6 413:9
185:2 356:20	79:1,4,7 80:21	409:18,20	414:3 433:5
hmm 162:14	hpv 501:22	422:24 445:22	450:14 456:2
hold 106:17	hr 374:24 375:1	455:20 458:16	i
108:19 124:14	475:7	485:7 486:7,19	i.e. 168:4
175:2 189:3	hrs 374:23	490:9 498:9	iarc 88:7,15,24
195:10 268:16	hrt 156:23	515:18 516:4	89:2,12 221:3
284:2 344:1	huge 391:3	519:14 521:7	241:24 243:17
374:15 484:10	huh 42:11,16	521:20	245:11 260:24
485:1	52:10 61:4	human 95:22	400:6 489:3,11
holding 255:18	77:19 81:23	99:15 106:22	idea 18:13
honestly 244:11	82:14 86:19	220:4 253:6	100:9 128:13
256:16 274:7	95:18 96:7,11	483:19,21	128:14 176:16
274:24 376:9	98:15,21	humans 400:10	180:17 193:14
hope 200:18	100:18 106:17	huncharek	207:11 210:15
436:16 534:5	111:12 124:14	279:24	210:16 244:16
hopefully 150:7	126:18 130:2	hygiene 434:24	247:5 258:22
hopkins 469:7	155:8 163:22	462:21 463:14	261:19 382:19
469:16 470:5	167:1,20	hygienist	452:8 456:7
470:17 471:3,8	177:13 188:18	308:21	ideally 127:12
529:23	188:21,21	hypotheses	127:20 128:22
hormone	212:24 221:5	148:3	identification
113:20 114:3	242:2 252:15	hypothesis	15:23 20:3
130:23 156:23	252:19 271:6	158:13 310:6	42:15 60:22
158:2,4	272:9 273:22	441:17,19	76:16 83:17
hospital 326:20	276:13 317:2	456:17	92:18 94:6
327:9,14,24	321:7 323:6		, 2.10 ,

[identification - inconsistent]

Page 48

98:14 161:20 implied 440:12 implies 152:22 importance incidence 90:8 487:10 and including 32:24 def:19 378:24 and including 32:24 and including including and including 32:24 and including 32:24 and including including including including including including including i				8.6
180:4 194:23 importance incidence 90:8 487:10 245:21 249:6 441:18 joil,19 93:13 including 32:24 270:6 276:3 102:20 103:14 246:19 378:24 81:9 87:7 98:3 35:22 36:14 326:16 332:18 130:7 197:10 389:18 390:16 115:18 125:14 115:18 125:14 341:22 350:2 222:12 312:5 430:20,23 196:7 198:12 196:7 198:12 361:22 368:19 335:4 337:23 incident 10:5 214:17 254:2 373:17 379:7 338:23 355:23 422:9 500:11 258:13 264:23 398:4,10 363:23 365:7 142:10 334:11 335:21 421:13 429:24 375:20 382:5,7 142:10 334:11 335:21 432:21 437:16 387:16 388:6 inciting 423:14 338:15 339:15 467:19 477:12 433:6 434:4 40:7 81:19 438:11 442:17 482:21 41:17 460:18 147:9 186:14 458:20 488:20 235:23 391:21 imprecision 301:5,5 302:19 137:21 245:2,5 383:13 384:14 502:23 33:15 335:6<	98:14 161:20	implied 440:12	incessant	303:8,11,16
245:21 249:6 441:18 90:18,19 93:13 including 32:24 270:6 276:3 102:20 103:14 178:20,22,22 35:22 36:14 285:4 296:19 102:20 103:14 246:19 378:24 81:9 87:7 98:3 326:16 332:18 130:7 197:10 389:18 390:16 115:18 125:14 341:22 350:2 222:12 312:5 430:20,23 196:7 198:12 361:22 368:19 335:4 337:23 incident 10:5 214:17 254:2 373:17 379:7 338:23 355:23 422:9 500:11 258:13 264:23 398:4,10 363:23 365:7 142:10 334:11 335:21 421:13 429:24 375:20 382:57 142:10 334:11 335:21 432:21 437:16 387:16 388:6 inciting 423:14 388:15 339:15 447:19 47:12 433:6 434:4 40:7 81:19 438:11 442:17 482:21 41:17 460:18 147:9 186:14 458:20 488:20 235:23 391:21 imprecision 301:5,5 302:19 137:21 245:2,5 82:15 128:24 improper 119:3 535:6 137:21 245:2,5 383:13 384:14 improper 119:3 535:6 <t< td=""><td>166:24 171:5</td><td>implies 152:22</td><td>158:11</td><td>319:15 364:12</td></t<>	166:24 171:5	implies 152:22	158:11	319:15 364:12
270:6 276:3 important 15:3 178:20,22,22 35:22 36:14 285:4 296:19 102:20 103:14 246:19 378:24 81:9 87:7 98:3 326:16 332:18 130:7 197:10 389:18 390:16 115:18 125:14 341:22 350:2 222:12 312:5 430:20,23 196:7 198:12 361:22 368:19 335:4 337:23 incident 10:5 214:17 254:2 373:17 379:7 338:23 355:23 422:9 500:11 258:13 264:23 398:4,10 363:23 365:7 incidents 321:13,19 421:13 429:24 375:20 382:5,7 142:10 334:13 35:21 432:21 437:16 387:16 388:6 inciting 423:14 338:15 339:15 443:23 454:9 388:10,14 include 34:3 340:22 429:7 467:19 477:12 433:6 434:4 40:7 81:19 438:11 442:17 482:21 41:17 460:18 147:9 186:14 458:20 488:20 235:23 391:21 imprecsed 364:12 483:19 137:21 245:2,5 82:15 128:24 189:19 483:22 534:17 16cilot 157:10 16cilot 157:10 16cilot 157:10 26:22 <td>180:4 194:23</td> <td>importance</td> <td>incidence 90:8</td> <td>487:10</td>	180:4 194:23	importance	incidence 90:8	487:10
285:4 296:19 102:20 103:14 246:19 378:24 81:9 87:7 98:3 326:16 332:18 130:7 197:10 389:18 390:16 115:18 125:14 341:22 350:2 222:12 312:5 430:20,23 196:7 198:12 361:22 368:19 335:4 337:23 incident 10:5 214:17 254:2 373:17 379:7 338:23 355:23 422:9 500:11 258:13 264:23 398:4,10 363:23 365:7 422:9 500:11 258:13 264:23 432:21 437:16 387:16 388:6 incidents 321:13,19 432:21 437:16 387:16 388:6 inciting 423:14 338:15 339:15 447:19 477:12 433:6 434:4 40:7 81:19 488:11 442:17 482:21 441:17 460:18 147:9 186:14 458:20 488:20 482:15 128:24 40:13 303:14 328:2 137:21 245:2,5 482:15 128:24 40:13 303:14 328:2 137:21 245:2,5 383:13 384:14 502:3,17 462:5 100:16 157:10 26:22 identifying 262:13 355:20 282:6 286:4 85:10 87:14 205:23 18 inaccurate 244:20 245:9	245:21 249:6	441:18	90:18,19 93:13	including 32:24
326:16 332:18 130:7 197:10 389:18 390:16 115:18 125:14 341:22 350:2 222:12 312:5 430:20,23 196:7 198:12 361:22 368:19 335:4 337:23 incident 10:5 214:17 254:2 373:17 379:7 338:23 355:23 422:9 500:11 258:13 264:23 398:4,10 363:23 365:7 incidents 321:13,19 421:13 429:24 375:20 382:5,7 142:10 334:11 335:21 432:21 437:16 387:16 388:6 inciting 423:14 338:15 339:15 443:23 454:9 388:10,14 40:7 81:19 438:11 442:17 482:21 441:17 460:18 147:9 186:14 458:20 488:20 identified 520:21 187:22 194:8 489:11 533:21 imprecision 301:5,5 302:19 inclusion identify 47:4 407:13 303:14 328:2 137:21 245:2,5 82:15 128:24 imprecsed 364:12 483:19 287:4 358:1 462:5 100:16 157:10 26:22 identifying 462:5 100:16 157:10 26:22 imprecer 189:1,9,14 <	270:6 276:3	important 15:3	178:20,22,22	35:22 36:14
341:22 350:2 222:12 312:5 430:20,23 196:7 198:12 361:22 368:19 335:4 337:23 incident 10:5 214:17 254:2 373:17 379:7 338:23 355:23 422:9 500:11 258:13 264:23 398:4,10 363:23 365:7 incidents 321:13,19 421:13 429:24 375:20 382:5,7 142:10 334:11 335:21 432:21 437:16 387:16 388:6 inciting 423:14 338:15 339:15 443:23 454:9 388:10,14 include 34:3 340:22 429:7 467:19 477:12 433:6 434:4 40:7 81:19 438:11 442:17 482:21 441:17 460:18 147:9 186:14 458:20 488:20 identified 520:21 187:22 194:8 489:11 533:21 235:23 391:21 imprecision 301:5,5 302:19 137:21 245:2,5 82:15 128:24 impressed 364:12 483:19 287:4 358:1 148:4 305:23 230:1 483:22 534:17 456:10 205:23 233:11 improved included 33:15 66:10 identifying 462:5 100:16 157:10 40:10 84:11 <tr< td=""><td>285:4 296:19</td><td>102:20 103:14</td><td>246:19 378:24</td><td>81:9 87:7 98:3</td></tr<>	285:4 296:19	102:20 103:14	246:19 378:24	81:9 87:7 98:3
361:22 368:19 335:4 337:23 incident 10:5 214:17 254:2 373:17 379:7 338:23 355:23 422:9 500:11 258:13 264:23 398:4,10 363:23 365:7 incidents 321:13,19 421:13 429:24 375:20 382:5,7 142:10 334:11 335:21 432:21 437:16 387:16 388:6 inciting 423:14 338:15 339:15 443:23 454:9 388:10,14 include 34:3 340:22 429:7 467:19 477:12 433:6 434:4 40:7 81:19 438:11 442:17 482:21 441:17 460:18 147:9 186:14 458:20 488:20 identified 520:21 187:22 194:8 489:11 533:21 235:23 391:21 imprecision 301:5,5 302:19 137:21 245:2,5 82:15 128:24 impressed 364:12 483:19 287:4 358:1 148:4 305:23 230:1 483:22 534:17 456:10 383:13 384:14 improved included 33:15 26:22 identifying 462:5 100:16 157:10 income 17:10 205:23 233:11 inaccurate 244:20 245:9 40:10 84:11 <	326:16 332:18	130:7 197:10	389:18 390:16	115:18 125:14
373:17 379:7 338:23 355:23 422:9 500:11 258:13 264:23 398:4,10 363:23 365:7 incidents 321:13,19 421:13 429:24 375:20 382:5,7 142:10 334:11 335:21 432:21 437:16 387:16 388:6 inciting 423:14 338:15 339:15 443:23 454:9 388:10,14 include 34:3 340:22 429:7 467:19 477:12 433:6 434:4 40:7 81:19 438:11 442:17 482:21 441:17 460:18 147:9 186:14 458:20 488:20 identified 520:21 187:22 194:8 489:11 533:21 imprecision 301:5,5 302:19 inclusion identify 47:4 407:13 303:14 328:2 137:21 245:2,5 82:15 128:24 impressed 364:12 483:19 287:4 358:1 148:4 305:23 230:1 483:22 534:17 456:10 383:13 384:14 improved included 33:15 income 17:10 identifying 462:5 100:16 157:10 incomplete 205:23 233:11 262:13 355:20 282:6 286:4 85:10 87:14 ignore 373:7,12 inaccurately 302:10 387:14 148:16 340:20 </td <td>341:22 350:2</td> <td>222:12 312:5</td> <td>430:20,23</td> <td>196:7 198:12</td>	341:22 350:2	222:12 312:5	430:20,23	196:7 198:12
398:4,10 363:23 365:7 incidents 321:13,19 421:13 429:24 375:20 382:5,7 142:10 334:11 335:21 432:21 437:16 387:16 388:6 inciting 423:14 338:15 339:15 443:23 454:9 388:10,14 include 34:3 340:22 429:7 467:19 477:12 433:6 434:4 40:7 81:19 438:11 442:17 482:21 441:17 460:18 147:9 186:14 458:20 488:20 identified 520:21 187:22 194:8 489:11 533:21 imprecision 301:5,5 302:19 inclusion identify 47:4 407:13 303:14 328:2 137:21 245:2,5 82:15 128:24 impressed 364:12 483:19 287:4 358:1 148:4 305:23 330:1 364:12 483:19 456:10 383:13 384:14 improper 119:3 535:6 included 33:15 205:23,17 improved included 33:15 26:22 identifying 462:5 100:16 157:10 incomplete 205:23 233:11 262:13 355:20 282:6 286:4 85:10 87:14 </td <td>361:22 368:19</td> <td>335:4 337:23</td> <td>incident 10:5</td> <td>214:17 254:2</td>	361:22 368:19	335:4 337:23	incident 10:5	214:17 254:2
421:13 429:24 375:20 382:5,7 142:10 334:11 335:21 432:21 437:16 387:16 388:6 inciting 423:14 338:15 339:15 443:23 454:9 388:10,14 include 34:3 340:22 429:7 467:19 477:12 433:6 434:4 40:7 81:19 438:11 442:17 482:21 441:17 460:18 147:9 186:14 458:20 488:20 identified 520:21 187:22 194:8 489:11 533:21 imprecision 301:5,5 302:19 inclusion 137:21 245:2,5 82:15 128:24 407:13 303:14 328:2 137:21 245:2,5 148:4 305:23 30:1 483:22 534:17 456:10 383:13 384:14 improper 119:3 535:6 income 17:10 502:3,17 improved included 33:15 26:22 identifying 462:5 100:16 157:10 26:22 improved 244:20 245:9 40:10 84:11 505:15 262:13 355:20 282:6 286:4 85:10 87:14 ignore 373:7,12 inaccurately 387:15,15 370:7 iii 455:18 189:1,9,14 387:15,15 370:7 207:24 378:23 291:19	373:17 379:7	338:23 355:23	422:9 500:11	258:13 264:23
432:21 437:16 387:16 388:6 inciting 423:14 338:15 339:15 443:23 454:9 388:10,14 include 34:3 340:22 429:7 467:19 477:12 433:6 434:4 40:7 81:19 438:11 442:17 482:21 441:17 460:18 147:9 186:14 458:20 488:20 identified 520:21 187:22 194:8 489:11 533:21 identify 47:4 407:13 303:14 328:2 137:21 245:2,5 82:15 128:24 impressed 364:12 483:19 287:4 358:1 148:4 305:23 230:1 483:22 534:17 456:10 383:13 384:14 improper 119:3 535:6 included 33:15 502:3,17 improved included 33:15 26:22 identifying 462:5 100:16 157:10 26:22 incomplete 205:23 233:11 262:13 355:20 282:6 286:4 85:10 87:14 ignore 373:7,12 inaccurately 302:10 387:14 148:16 340:20 iii 455:18 189:1,9,14 387:15,15 370:7 523:18 inadequate 405:15 407:2,4 407:12 493:14	398:4,10	363:23 365:7	incidents	321:13,19
443:23 454:9 467:19 477:12388:10,14 433:6 434:4 441:17 460:18include 40:7 81:19340:22 429:7 438:11 442:17482:21 identified 235:23 391:21 imprecision520:21 imprecision187:22 194:8 301:5,5 302:19489:11 533:21 inclusionidentify 47:4 82:15 128:24 148:4 305:23 230:1 identifying407:13 303:14 328:2303:14 328:2 364:12 483:19 483:22 534:17137:21 245:2,5 287:4 358:1identifying 205:23,17 identifying 205:15 205:23 233:11 improved 205:23 233:11 improved 205:23 233:11 imaccurate 205:23 355:20 228:6 286:4 387:15,15 223:18 2279:17 290:1 2279:17 290:1 2279:17 290:1 388:10 4379:2,2 383:20100:16 157:10 244:20 245:9 282:6 286:4 407:12 493:14 456:10 370:7impore 373:7,12 imadequate 207:24 378:23 386:6 414:17 448:12 impacts 173:20189:1,9,14 387:15,15 383:20 383:20 77:11 188:3 77:11 188:3 193:23 233:21340:22 429:7 438:13 448:12 287:15,18 288:14,17	421:13 429:24	375:20 382:5,7	142:10	334:11 335:21
467:19 477:12433:6 434:440:7 81:19438:11 442:17482:21441:17 460:18147:9 186:14458:20 488:20identified520:21187:22 194:8489:11 533:21235:23 391:21imprecision301:5,5 302:19inclusionidentify 47:4407:13303:14 328:2137:21 245:2,582:15 128:24impressed364:12 483:19287:4 358:1148:4 305:23230:1483:22 534:17456:10383:13 384:14improper 119:3535:6income 17:10502:3,17improvedincluded 33:1526:22identifying462:5100:16 157:1026:22205:23 233:11262:13 355:20282:6 286:485:10 87:14505:15262:13 355:20282:6 286:485:10 87:14ignore 373:7,12inaccurately302:10 387:14148:16 340:20iii 455:18189:1,9,14387:15,15370:7523:18inadequate405:15 407:2,4407:12 493:14207:24 378:23291:19480:16 518:9407:12 493:14386:6 414:17inappropriate521:9,17225:13 279:16448:12312:14 379:2,2includes 28:17283:5,19 284:5impacts 173:20383:2077:11 188:3287:15,18implementedinappropriately193:23 233:21288:14,17	432:21 437:16	387:16 388:6	inciting 423:14	338:15 339:15
482:21441:17 460:18147:9 186:14458:20 488:20identified520:21187:22 194:8489:11 533:21235:23 391:21imprecision301:5,5 302:19inclusionidentify47:4407:13303:14 328:2137:21 245:2,582:15 128:24impressed364:12 483:19287:4 358:1148:4 305:23230:1483:22 534:17456:10383:13 384:14improper119:3included33:15502:3,17improvedincluded33:1526:22identifying462:5100:16 157:10incomplete205:23 233:11262:13 355:20282:6 286:485:10 87:14505:15262:13 355:20282:6 286:485:10 87:14ignore373:7,12inaccurately302:10 387:14148:16 340:20iii455:18189:1,9,14387:15,15370:7523:18inadequate405:15 407:2,4407:12 493:14impact24:6279:17 290:1457:18,20407:12 493:14207:24 378:23291:19480:16 518:9inconsistent386:6 414:17inappropriate521:9,17225:13 279:16448:12312:14 379:2,2includes28:17283:5,19 284:5impacts173:20383:2077:11 188:3287:15,18implementedinappropriately193:23 233:21288:14,17	443:23 454:9	388:10,14	include 34:3	340:22 429:7
identified 520:21 187:22 194:8 489:11 533:21 235:23 391:21 imprecision 301:5,5 302:19 inclusion identify 47:4 407:13 303:14 328:2 137:21 245:2,5 82:15 128:24 impressed 364:12 483:19 287:4 358:1 148:4 305:23 230:1 483:22 534:17 456:10 383:13 384:14 improper 119:3 535:6 income 17:10 502:3,17 improved included 33:15 26:22 identifying 462:5 100:16 157:10 incomplete 205:23 233:11 262:13 355:20 282:6 286:4 85:10 87:14 ignore 373:7,12 inaccurately 302:10 387:14 148:16 340:20 iii 455:18 189:1,9,14 387:15,15 370:7 523:18 inadequate 405:15 407:2,4 407:12 493:14 207:24 378:23 291:19 480:16 518:9 inconsistent 386:6 414:17 312:14 379:2,2 383:20 77:11 188:3 287:15,18 implemented inappropriately 193:23 233:21 288:14,17	467:19 477:12	433:6 434:4	40:7 81:19	438:11 442:17
235:23 391:21imprecision301:5,5 302:19inclusionidentify 47:4407:13303:14 328:2137:21 245:2,582:15 128:24impressed364:12 483:19287:4 358:1148:4 305:23230:1483:22 534:17456:10383:13 384:14improper 119:3535:6income 17:10502:3,17improvedincluded 33:1526:22identifying462:5100:16 157:10incomplete205:23 233:11262:13 355:20282:6 286:485:10 87:14ignore 373:7,12inaccurately302:10 387:14148:16 340:20iii 455:18189:1,9,14387:15,15370:7523:18inadequate405:15 407:2,4407:12 493:14207:24 378:23291:19480:16 518:9407:12 493:14386:6 414:17inappropriate521:9,17225:13 279:16448:12312:14 379:2,2includes 28:17283:5,19 284:5impacts 173:20383:2077:11 188:3287:15,18implementedinappropriately193:23 233:21288:14,17	482:21	441:17 460:18	147:9 186:14	458:20 488:20
identify 47:4 407:13 303:14 328:2 137:21 245:2,5 82:15 128:24 impressed 364:12 483:19 287:4 358:1 148:4 305:23 230:1 483:22 534:17 456:10 383:13 384:14 improper 119:3 535:6 income 17:10 502:3,17 improved included 33:15 26:22 identifying 462:5 100:16 157:10 incomplete 205:23 233:11 262:13 355:20 282:6 286:4 85:10 87:14 ignore 373:7,12 inaccurately 302:10 387:14 148:16 340:20 iii 455:18 189:1,9,14 387:15,15 370:7 523:18 inadequate 405:15 407:2,4 407:12 493:14 207:24 378:23 291:19 480:16 518:9 inconsistent 386:6 414:17 inappropriate 521:9,17 225:13 279:16 448:12 312:14 379:2,2 includes 28:17 implemented inappropriately 193:23 233:21 288:14,17	identified	520:21	187:22 194:8	489:11 533:21
82:15 128:24 impressed 364:12 483:19 287:4 358:1 148:4 305:23 230:1 483:22 534:17 456:10 383:13 384:14 improper 119:3 535:6 income 17:10 502:3,17 improved included 33:15 26:22 identifying 462:5 100:16 157:10 incomplete 205:23 233:11 262:13 355:20 282:6 286:4 85:10 87:14 ignore 373:7,12 inaccurately 302:10 387:14 148:16 340:20 iii 455:18 189:1,9,14 387:15,15 370:7 523:18 inadequate 405:15 407:2,4 inconsistency impact 24:6 279:17 290:1 457:18,20 407:12 493:14 207:24 378:23 291:19 480:16 518:9 inconsistent 386:6 414:17 312:14 379:2,2 includes 28:17 283:5,19 284:5 impacts 173:20 383:20 77:11 188:3 287:15,18 implemented inappropriately 193:23 233:21 288:14,17	235:23 391:21	imprecision	301:5,5 302:19	inclusion
148:4 305:23230:1483:22 534:17456:10383:13 384:14improper 119:3535:6income 17:10502:3,17improvedincluded 33:1526:22identifying462:5100:16 157:10incomplete205:23 233:11262:13 355:20282:6 286:485:10 87:14505:15262:13 355:20282:6 286:485:10 87:14ignore 373:7,12inaccurately302:10 387:14148:16 340:20iii 455:18189:1,9,14387:15,15370:7523:18inadequate405:15 407:2,4inconsistencyimpact 24:6279:17 290:1457:18,20407:12 493:14207:24 378:23291:19480:16 518:9inconsistent386:6 414:17inappropriate521:9,17225:13 279:16448:12312:14 379:2,2includes 28:17283:5,19 284:5impacts 173:20383:2077:11 188:3287:15,18implementedinappropriately193:23 233:21288:14,17	identify 47:4	407:13	303:14 328:2	137:21 245:2,5
383:13 384:14 502:3,17improper improved119:3 improved535:6 includedincome 26:22identifying 205:23 233:11 505:15462:5 inaccurate 262:13 355:20100:16 157:10 244:20 245:940:10 84:11 40:10 84:11505:15 ignore262:13 355:20 373:7,12282:6 286:4 302:10 387:1485:10 87:14 148:16 340:20iii 455:18 impact 207:24 378:23189:1,9,14 inadequate387:15,15 405:15 407:2,4370:7 inconsistencyimpact 48:12279:17 290:1 291:19457:18,20 480:16 518:9407:12 493:14 inconsistent386:6 414:17 448:12312:14 379:2,2 383:20480:16 518:9 521:9,17225:13 279:16 283:5,19 284:5impacts implemented383:20 inappropriately77:11 188:3 193:23 233:21287:15,18 288:14,17	82:15 128:24	impressed	364:12 483:19	287:4 358:1
502:3,17improvedincluded33:1526:22identifying462:5100:16 157:10incomplete205:23 233:11262:13 355:20244:20 245:940:10 84:11505:15262:13 355:20282:6 286:485:10 87:14ignore373:7,12inaccurately302:10 387:14148:16 340:20iii455:18189:1,9,14387:15,15370:7523:18inadequate405:15 407:2,4inconsistencyimpact24:6279:17 290:1457:18,20407:12 493:14207:24 378:23291:19480:16 518:9inconsistent386:6 414:17inappropriate521:9,17225:13 279:16448:12312:14 379:2,2includes28:17283:5,19 284:5impacts173:20383:2077:11 188:3287:15,18implementedinappropriately193:23 233:21288:14,17	148:4 305:23	230:1	483:22 534:17	456:10
identifying462:5100:16 157:10incomplete205:23 233:11244:20 245:940:10 84:11505:15262:13 355:20282:6 286:485:10 87:14ignore 373:7,12inaccurately302:10 387:14148:16 340:20iii 455:18189:1,9,14387:15,15370:7523:18inadequate405:15 407:2,4inconsistencyimpact 24:6279:17 290:1457:18,20407:12 493:14207:24 378:23291:19480:16 518:9inconsistent386:6 414:17inappropriate521:9,17225:13 279:16448:12312:14 379:2,2includes 28:17283:5,19 284:5impacts 173:20383:2077:11 188:3287:15,18implementedinappropriately193:23 233:21288:14,17	383:13 384:14	improper 119:3	535:6	income 17:10
205:23 233:11 inaccurate 244:20 245:9 40:10 84:11 505:15 262:13 355:20 282:6 286:4 85:10 87:14 ignore 373:7,12 inaccurately 302:10 387:14 148:16 340:20 iii 455:18 189:1,9,14 387:15,15 370:7 523:18 inadequate 405:15 407:2,4 inconsistency impact 24:6 279:17 290:1 457:18,20 407:12 493:14 207:24 378:23 291:19 480:16 518:9 inconsistent 386:6 414:17 inappropriate 521:9,17 225:13 279:16 448:12 312:14 379:2,2 includes 28:17 283:5,19 284:5 impacts 173:20 383:20 77:11 188:3 287:15,18 implemented inappropriately 193:23 233:21 288:14,17	502:3,17	_	included 33:15	26:22
505:15262:13 355:20282:6 286:485:10 87:14ignore373:7,12inaccurately302:10 387:14148:16 340:20iii455:18189:1,9,14387:15,15370:7523:18inadequate405:15 407:2,4inconsistencyimpact24:6279:17 290:1457:18,20407:12 493:14207:24 378:23291:19480:16 518:9inconsistent386:6 414:17inappropriate521:9,17225:13 279:16448:12312:14 379:2,2includes28:17impacts173:20383:2077:11 188:3287:15,18implementedinappropriately193:23 233:21288:14,17	, ,	462:5		_
ignore373:7,12inaccurately302:10 387:14148:16 340:20iii 455:18189:1,9,14387:15,15370:7523:18inadequate405:15 407:2,4inconsistencyimpact 24:6279:17 290:1457:18,20407:12 493:14207:24 378:23291:19480:16 518:9inconsistent386:6 414:17inappropriate521:9,17225:13 279:16448:12312:14 379:2,2includes 28:17283:5,19 284:5impacts 173:20383:2077:11 188:3287:15,18implementedinappropriately193:23 233:21288:14,17	205:23 233:11		244:20 245:9	40:10 84:11
iii 455:18 189:1,9,14 387:15,15 370:7 523:18 inadequate 405:15 407:2,4 inconsistency impact 24:6 279:17 290:1 457:18,20 407:12 493:14 207:24 378:23 291:19 480:16 518:9 inconsistent 386:6 414:17 inappropriate 521:9,17 225:13 279:16 448:12 312:14 379:2,2 includes 28:17 283:5,19 284:5 impacts 173:20 383:20 77:11 188:3 287:15,18 implemented inappropriately 193:23 233:21 288:14,17	505:15	262:13 355:20	282:6 286:4	85:10 87:14
523:18inadequate405:15 407:2,4inconsistencyimpact 24:6279:17 290:1457:18,20407:12 493:14207:24 378:23291:19480:16 518:9inconsistent386:6 414:17inappropriate521:9,17225:13 279:16448:12312:14 379:2,2includes 28:17283:5,19 284:5impacts 173:20383:2077:11 188:3287:15,18implementedinappropriately193:23 233:21288:14,17	•	•	302:10 387:14	148:16 340:20
impact 24:6 279:17 290:1 457:18,20 407:12 493:14 207:24 378:23 291:19 480:16 518:9 inconsistent 386:6 414:17 inappropriate 521:9,17 225:13 279:16 448:12 312:14 379:2,2 includes 28:17 283:5,19 284:5 impacts 173:20 383:20 77:11 188:3 287:15,18 implemented inappropriately 193:23 233:21 288:14,17	iii 455:18	189:1,9,14	387:15,15	370:7
207:24 378:23 291:19 480:16 518:9 inconsistent 386:6 414:17 inappropriate 521:9,17 225:13 279:16 448:12 312:14 379:2,2 includes 28:17 283:5,19 284:5 impacts 173:20 383:20 77:11 188:3 287:15,18 implemented inappropriately 193:23 233:21 288:14,17	523:18	_	405:15 407:2,4	inconsistency
386:6 414:17 inappropriate 521:9,17 225:13 279:16 448:12 312:14 379:2,2 includes 28:17 283:5,19 284:5 impacts 173:20 383:20 77:11 188:3 287:15,18 implemented inappropriately 193:23 233:21 288:14,17	_	279:17 290:1	457:18,20	407:12 493:14
448:12 312:14 379:2,2 includes 28:17 283:5,19 284:5 impacts 173:20 383:20 77:11 188:3 287:15,18 implemented inappropriately 193:23 233:21 288:14,17	207:24 378:23	291:19	480:16 518:9	inconsistent
impacts 173:20 383:20 77:11 188:3 287:15,18 implemented inappropriately 193:23 233:21 288:14,17	386:6 414:17	inappropriate	,	
implemented inappropriately 193:23 233:21 288:14,17		· ·		,
	impacts 173:20	383:20	77:11 188:3	287:15,18
231:4 378:17 241:18 298:6 289:24 291:18	_	inappropriately		·
	231:4	378:17	241:18 298:6	289:24 291:18

[inconsistent - information]

Page 49

			C
293:21 294:13	331:6 337:2,9	indicating	inferences
495:6	337:11 339:16	313:14 439:8	318:22 366:22
incorporate	339:16 340:23	indirectness	inferior 188:15
359:1	347:18,18	407:12	inferred 136:15
incorporates	348:6 400:22	indisputable	inflammation
359:18	400:23 405:3,4	139:5 264:4,8	136:2 137:22
incorrect 281:9	496:10,10,10	268:9	357:12,18,21
281:9 284:1	498:21,21	individual	357:23 358:8
354:23	incur 135:24	131:24 221:19	360:2,8,16
incorrectly	357:10	314:22 401:1	392:4 419:9
282:15,21	incurred 19:9	402:7 403:9	478:9
increase 33:22	independent	502:7	inflammatory
159:4,7 181:10	393:24	individually	208:2 358:3
189:17 280:11	index 5:1	519:5	423:14
301:4 327:10	indicate 99:14	individuals	influence 10:9
334:14 366:9	106:21 169:16	59:6 286:6	24:7 170:7
391:18 392:11	271:15 313:9	423:15	265:5 328:8
412:8 447:2	338:4 395:18	induce 137:22	360:13 384:5
518:4	411:10 505:19	357:24 390:14	386:21,24
increased	indicated 14:23	inducing 139:2	387:2 430:8
148:13 151:10	71:15 78:20	industrial	506:13
279:18 280:17	90:7 135:17	308:21	influenced
290:2 291:20	144:3 150:5	industry	168:22 197:14
337:1,10,16	232:14 291:8	312:22 313:1,2	232:17 235:5
354:7 430:20	320:16 325:7	435:23 436:3	338:15 383:1
433:9 504:15	383:21 384:7	436:11 466:4	influencing
increases 152:6	386:5 395:18	466:24 467:23	315:19
increasing	435:13 450:20	470:11	information
111:11 115:20	475:20 476:7	infer 153:23	15:16 66:7
115:21 119:23	507:17,22	inference 109:1	128:6 154:6
119:24 120:4,5	529:8 538:10	112:22,22	174:9 209:3
121:14,14	indicates 84:16	134:11,13,14	213:6 214:6,15
122:9 131:14	95:16 125:2	231:14 232:7	215:15,18
181:10 280:11	127:17 165:18	232:10,11	251:1,4 257:6
280:17 318:2,3	400:8 484:14	233:6 331:22	265:19 271:8
321:23,24	498:2,5 533:14	364:1	271:10 272:13

Document 33008-56 PageID: 211399

[information - interval]

Page 50

272:15 289:1	injured 196:11	intend 19:17	interpretation
304:15,16	injuries 483:19	213:2,22 215:3	6:4 11:1 98:11
339:1 395:2,7	483:21	215:24 399:3	132:2 135:11
396:2 478:21	injury 483:17	intended 272:6	153:11 231:18
509:6 512:11	input 78:22	272:21 273:1	264:8 310:7
518:8,11 521:2	installment	290:10 513:7	339:12 340:12
525:20 532:1	49:2	intending 272:2	348:14 361:13
534:20	instances 229:9	398:13	382:17 388:21
informed 332:8	institute 343:2	intensity 87:9	interpretative
491:9	343:14 438:9	125:16	439:11
infrequent	442:18 460:17	intent 211:2	interpreted
415:13	460:21	243:22 381:15	187:6 363:15
infrequently	institutes	381:19 523:11	363:22 366:9
168:21	411:17	interest 129:1	368:10
inhalation	institutions	196:2 212:10	interpreting
414:9,10,17,20	442:16	315:24,24	366:15
483:24 486:18	instruct 30:7	316:2 380:24	interrupt 34:7
487:12 488:1,9	30:16 32:6,14	383:5,14	142:19 491:20
inhaled 347:10	45:22 110:3,6	384:15 414:23	interrupted
inherent	instructing	528:15,19	302:1
364:22	377:8	interested	interval 164:4,6
inherited	instructions	73:24 203:10	164:20 167:24
364:21	30:20	204:22 539:16	168:8,11 181:9
initial 66:21	insufficient	interesting	184:12 186:14
67:13 72:3	329:16 330:10	297:24 478:16	188:2,6 233:20
78:10,18	412:8	intermittent	290:15 297:16
initially 57:2	insult 376:12	450:4	302:15,23
58:20 59:20	insulting	internal 238:15	303:7,10,13,15
78:16 221:7	376:10 473:11	267:8	304:6 313:6
408:16 531:5	intact 375:16	international	314:3 317:24
initiate 227:23	388:1 433:10	5:20 411:7	327:15,22
234:16	476:21 521:18	436:5 444:6	328:2 330:6
initiated 380:7	521:24 522:9	internet 28:9	335:5 347:21
initiative 282:2	integrity	interpret 187:5	347:22 364:12
289:16 304:4	310:12	310:6 368:8	367:23 372:21
		458:11 475:13	372:22 373:3
L	1	1	1

Golkow Technologies, A Veritext Division

[interval - johnson]

Page 51

374:24 375:2	303:22 326:1	262:15 304:22	issues 96:14
401:10 495:24	334:16 337:5	382:22	108:24 201:20
intervals	337:19	involvement	202:23 229:16
102:12 260:6	investigations	71:21	232:18 319:22
348:15 364:10	178:1,10	involving 27:2	335:14 341:6
388:4 403:13	investigators	27:5,10 28:1	407:11
457:17 495:16	266:24 267:9	42:3 58:6,9,13	issuing 483:11
intervene 148:5	invitation	58:23 68:16	483:14
intervention	513:3	70:23 90:17	items 157:9
391:3	invited 36:5	100:14 169:24	iterative 78:14
interventions	311:3 363:19	203:16 219:7	534:9
148:9	436:15 513:1,3	220:16 380:14	j
interview	inviting 393:20	382:10,12	j 5:16
164:13 165:4	invoice 19:8,17	384:17	j&j 239:6 470:6
165:11,19	20:15,19 45:16	irritants 423:14	491:8,9
170:2,15	49:14,14 51:15	isrtp 253:4,10	j&j's 469:17
512:10	52:8 54:8 55:16	435:17 470:6	jama 8:17,23
interviewed	56:23 72:15	512:20	9:3 82:24
168:3,10	invoiced 19:4	issue 97:17 98:1	january 5:24
511:19	57:1 60:3	128:4 129:18	8:23 44:15,16
interviewing	invoices 5:11	185:23 200:10	49:13 52:9,11
511:16	19:24 20:12,16	200:10 203:22	jelleff 6:2 10:16
interviews	43:24 44:13,14	210:17 236:5	438:4
128:6 164:3,5	55:10,12,15,17	266:9 279:23	jersey 1:2 4:3
intramural	59:11 72:19,21	291:6 304:18	63:3 201:10,13
266:23	78:21,24 80:23	304:20 318:7	201:23 203:4
introduce	81:3	324:19,20	201.23 203.4
129:5	involve 136:1	338:13 359:4	jewish 158:24
introduced	357:12	369:14 370:11	job 1:24 115:2
56:20 356:21	involved 23:24	378:9 407:18	138:6 262:16
introduction	28:16 35:9	415:9 439:14	262:19
100:13 101:1	36:13 39:6,11	514:21	john 68:21
invasive 295:23	50:11 52:1 72:1	issued 20:12	johnson 1:5,5
297:13 299:5	76:1 94:22 97:6	201:6 202:20	4:14,14,14,15
299:17 300:3	202:5 246:23	213:12 249:21	43:9,9 61:3,3
301:3 302:7	261:20 262:8	252:4 472:15	45.5,5 01.5,5

[johnson - knowing]

Page 52

L) (
62:6,6 198:12	karl 208:22	105:1,19	277:3,10,11
198:12 202:22	keep 48:14 67:7	116:14 119:3,5	286:13 287:11
202:22 238:16	67:9 141:7	119:6,12	295:6 297:1
238:16,19,19	222:24	120:10 124:3,4	298:5 307:12
238:21,21	keeping 482:13	128:14 130:21	328:9,17
240:1,1,18,18	ken 48:4 50:21	132:14 133:6	330:12 333:2
241:6,7 309:10	kenneth 5:16	133:10 134:21	335:3 339:22
309:10 382:11	kind 13:23 67:9	137:3 139:4,10	345:11 358:17
382:11 466:17	70:5 120:22	147:24 150:22	365:21 367:24
466:17 468:10	142:4 154:2,23	157:12 160:7	374:3,5 378:6
468:10 481:23	280:1 306:10	165:23 166:1	378:12 381:12
485:17 520:16	311:8 370:8	167:8 169:4	381:20 382:8
520:16	378:15,21	176:20 181:20	382:21 383:24
johnson's 81:9	383:2 392:14	183:10 199:16	389:21 390:3
226:5,10,22	395:2,7 479:8	199:20,22	392:7,16 393:6
309:4 481:23	505:9 526:9	202:6 204:15	393:16,19,21
485:17	kinds 462:12	204:18 205:1,5	393:22 395:21
joint 78:22	531:22	205:5,16	397:17 402:21
326:2 384:7	kjr 48:2,4,16	206:10 207:6	410:21 417:18
journal 57:22	kliner 520:15	208:12,17	428:14 448:6
363:14 439:14	knew 57:18	209:7,9,13,16	448:10 452:9
judge 210:5	169:13 174:3	209:19,22	452:10 454:19
211:2 218:13	176:22	210:1,7 211:3,8	466:3,11
359:5,16	know 20:22	211:9 215:14	469:21,22,22
judkins 208:20	25:20 28:15	215:22 216:2	476:1 480:6
july 10:14	39:3,6,10,24	217:3,9,12	481:6 491:3,6,8
jump 391:11	41:1,6 43:13,14	223:3 226:14	491:14 492:6,6
june 167:15	55:23 61:21	226:19 239:2	492:18 501:1
jury 210:6	63:9 64:12	241:13 244:3,9	507:13,17,19
211:2 218:14	67:20 68:4,6,18	251:19 254:4	518:3 520:22
justice's 28:14	68:21 69:2,5,7	254:12,14	522:14 529:9
k	69:8,8,9,10,11	256:16 259:23	529:17 530:1
k 2:15 3:16	69:15,17,19,23	262:5 264:1	531:24
kansas 4:19	70:1,6,10 75:15	274:12,13,14	knowing 71:14
imiliand T.17	75:18 80:1,8	274:14,24	141:17 204:23
	82:23 83:3,4	276:18,23	383:18

Document 33008-56 PageID: 211401

> Golkow Technologies, A Veritext Division

[knowledge - letting]

Page 53

knowledge	lacks 134:14	32:12 53:22	483:9 515:23
26:12 60:13	466:19 468:16	54:1,24 60:14	515:24 516:1
62:11 168:22	469:19	60:15 65:24	legal 26:13
169:9 209:10	land 523:9	68:15 71:20	27:23 32:13
241:5 382:22	landing 526:10	191:14 196:23	51:1,2,12
395:6	langseth 7:22	380:13 382:9	leigh 49:24
knowledgeable	326:13 329:4	393:11 464:13	length 326:6
205:10,12	340:24	lay 232:19	446:1,8 516:6
known 79:24	language 97:7	lazar 520:8	lengths 326:5,6
80:3 115:2,18	large 93:12	lead 78:3,4,5,7	lesions 501:23
150:17 154:6	183:10 261:6	84:12 85:12	501:24
156:7 203:7,8	369:9	260:15 358:3	lethal 462:22
315:18 321:21	largely 43:7	436:17	letter 7:3 82:19
394:24 395:5	324:16	leading 419:12	97:2 244:7
418:14 424:6	laryngeal	478:9	248:23 249:21
478:11 487:4	483:23 486:14	leads 232:24	250:19 251:4
507:6	486:17,22	234:16	251:24 252:4,8
knows 64:12	487:11	learned 466:12	253:17 254:3
l	late 493:7 527:6	466:22	256:12 261:4
l 1:13 2:11 5:2	latest 270:11	leave 34:4	261:16 262:3
5:15 12:3,15	laugh 26:1 52:4	426:7 499:24	369:1 370:4
16:24 218:3	59:18 61:12	leaves 492:2	371:22 378:4
538:19	80:13 190:7	lectured 310:19	379:8,13,17,20
label 253:23	200:19 235:20	leeway 523:8	379:23 380:2
254:11	307:7 430:15	526:24	380:10 381:13
labeling 533:11	law 59:4,15,18	left 85:18 86:20	382:24 384:7
laboratory	59:21	86:21 96:9	384:13 385:6
197:13 205:17	lawsuit 27:23	124:22 125:10	385:23,24
239:12	lawsuits 163:10	163:20 196:6	388:13 431:10
labs 205:7	168:4 382:10	247:20 281:24	453:6 465:1
lack 87:4 135:7	382:11	299:9 330:14	466:8 473:9
135:9 388:2	lawyer 28:13	343:19 344:4	474:14 490:7
407:11 476:23	58:4,9 64:16	352:7 374:8,13	514:6 528:16
lacking 259:18	67:24 471:1	374:14 417:11	letters 82:24
	lawyers 18:10	438:7,16	letting 381:11
		,	
259:20 260:16	19:4 31:5 32:11	445:21 449:24	381:20 428:14

[level - literature]

Page 54

_			\mathcal{E}
level 148:13	likely 74:19	line 129:3	140:20 141:7
149:11 150:9	86:6 95:23	365:13 369:7	143:15 146:15
151:20 211:6	130:13 148:22	369:19 537:3,5	146:17 147:3
222:7,14	156:4 160:3	537:7,9,11,13	147:10 156:18
224:17 306:3	174:24 175:10	537:15,17,19	156:22 157:2,4
310:14,16	176:10 187:20	537:21,23	158:1,10,19,23
338:16 348:1	188:7 189:13	linear 154:1	196:18 201:16
386:12 442:12	227:23 303:18	lines 63:15	206:5,20
443:9	303:19 367:18	142:13	207:10,12
levels 169:6	388:11 390:14	link 246:21,22	215:16 218:15
224:13 225:7	390:16 410:2	list 43:3 46:10	218:24 220:16
225:19 318:3	450:2 475:8,9	46:10 68:24	222:4 223:5,6
levin 3:4	489:24	77:14,15	229:10 230:19
levinlaw.com	limit 118:23	193:22 213:24	233:11 235:8
3:10	175:21 201:12	215:6 276:14	235:13,18,20
liability 1:8	241:13 275:7	394:12 395:11	235:23 236:10
life 149:12	528:1	395:24 396:4,8	240:14 245:8
lifetime 86:13	limitation	396:14,15	246:11,13,16
129:17 280:8	446:13 516:15	397:5 411:4	247:4 248:1,8,9
334:16 337:4	517:19,24	459:12 490:16	248:14 253:19
348:6 516:8	518:1	500:24 501:1,4	254:8,24
ligation 126:5	limitations 38:4	listed 61:6	256:14 266:13
184:10,24	171:16,23	114:21 199:3	267:10 277:17
185:2,6,7,12,12	236:23 366:13	322:22	277:21 309:8,9
185:20 256:8	367:8 387:14	listen 202:11,16	309:14 325:17
335:17 344:8	388:7 475:21	358:4 377:13	360:8 362:6
344:12 346:16	limited 168:3	377:21	365:1 382:16
346:24 412:5	179:5 183:19	listening	388:6 423:7
413:8 414:2	184:9 198:7	377:19	424:24 427:19
433:5 450:14	225:4 387:24	lists 111:17	428:16 431:9
456:2	434:23 476:21	231:3	432:2 435:7
light 8:11 253:3	limiting 216:12	literally 442:15	440:23 447:10
408:18 439:11	457:4	literature 32:4	448:6 450:21
523:7	limits 259:11	33:3 34:2 38:5	460:9 463:5
likelihood	259:15	46:15 47:12,20	473:21 474:5
512:12		47:24 78:11	479:11 486:15

[literature - look]

Page 55

488:20 503:9 305:17,21 189:13 198:24 129:3 130:3 503:18 510:17 306:5 394:24 209:13 235:20 134:3 141:3 521:3 531:12 431:11 434:19 292:18 307:13 144:4,5 145:10 litigation 1:9 464:13 465:13 344:19,22,24 153:6 155:18 litigation 1:9 464:13 465:13 407:24 417:18 162:22 164:18 16:18 17:4 19:2 491:12,13 429:15 430:16 165:13 170:19 19:6,10 21:22 519:10,16 434:18 450:3 177:29 178:8 22:4 23:10 528:21 529:7 504:23 506:6 178:20 182:16 26:16,19,22 529:10,16 526:16 528:3 186:2 187:9 27:1,5,10,18 little 38:6 89:22 longer 168:6 195:7 196:5 29:18 32:13 90:11 154:7 338:4 345:16 195:7 196:5 39:1 40:3,8,16 172:24 228:4 49:21 505:19 199:1,12 200:7 40:18,22 41:2 291:10 293:8 506:2 523:8 206:19 208:22 41:14 43:10,14 43:19 321 326:1 197:18 198:13 232:14,16 55:19,24 339:1 386:6 200:16 20	_			E
144:4,5 145:10	488:20 503:9	305:17,21	189:13 198:24	129:3 130:3
litigants 465:5 455:3 462:13 344:19,22,24 153:6 155:18 litigation 1:9 464:13 465:13 407:24 417:18 162:22 164:18 16:18 17:4 19:2 491:12,13 429:15 430:16 165:13 170:19 19:6,10 21:22 519:10,16 434:18 450:3 177:2,9 178:8 22:4 23:10 528:21 529:7 504:23 506:6 178:20 182:16 26:16,19,22 529:10,16 16ttle 38:6 89:22 29:18 32:13 90:11 154:7 338:4 345:16 195:7 196:5 39:1 40:3,8,16 172:24 228:4 491:21 505:19 199:1,12 200:7 40:18,22 41:2 291:10 293:8 506:2 523:8 206:19 208:22 41:14 43:10,14 312:1 321:10 328:10 336:15 197:18 198:13 232:14,16 54:12 55:19,24 339:1 386:6 200:16 201:1 242:11 245:12 56:12 57:4,10 391:12 410:1 203:15 204:13 253:13 254:17 57:19 58:2,3 live 209:7 204:18 205:2 255:5 258:8 18:10 72:16 73:9,15 16:23 17:1,3 469:12 284:23 285:10 75:19 80:	503:18 510:17	306:5 394:24	209:13 235:20	134:3 141:3
litigation 1:9 464:13 465:13 407:24 417:18 162:22 164:18 16:18 17:4 19:2 491:12,13 492:15 430:16 165:13 170:19 19:6,10 21:22 519:10,16 434:18 450:3 177:2,9 178:8 22:4 23:10 528:21 529:7 504:23 506:6 178:20 182:16 26:16,19,22 529:10,16 526:16 528:3 186:2 187:9 27:1,5,10,18 little 38:6 89:22 longer 168:6 195:7 196:5 29:18 32:13 90:11 154:7 338:4 345:16 198:18,21 39:1 40:3,8,16 172:24 228:4 49:21 505:19 199:1,12 200:7 40:18,22 41:2 291:10 293:8 506:2 523:8 206:19 208:22 41:14 43:10,14 312:1 321:10 328:10 336:15 197:18 198:13 232:14,16 54:12 55:19,24 339:1 386:6 200:16 201:1 242:11 245:12 56:12 57:4,10 391:12 410:1 203:15 204:13 253:13 254:17 57:19 58:2,3 lic 16:18,19,21 204:18 205:2 255:5 258:8 71:3,21 72:6 lic 16:18,19,21 240:15 469:3 279:3 280:15 <t< th=""><td>521:3 531:12</td><td>431:11 434:19</td><td>292:18 307:13</td><td>144:4,5 145:10</td></t<>	521:3 531:12	431:11 434:19	292:18 307:13	144:4,5 145:10
16:18 17:4 19:2	litigants 465:5	455:3 462:13	344:19,22,24	153:6 155:18
19:6,10 21:22	litigation 1:9	464:13 465:13	407:24 417:18	162:22 164:18
22:4 23:10 528:21 529:7 504:23 506:6 178:20 182:16 26:16,19,22 529:10,16 186:2 187:9 27:1,5,10,18 little 38:6 89:22 longer 168:6 195:7 196:5 29:18 32:13 90:11 154:7 338:4 345:16 198:18,21 39:1 40:3,8,16 172:24 228:4 491:21 505:19 199:1,12 200:7 40:18,22 41:2 291:10 293:8 506:2 523:8 206:19 208:22 41:14 43:10,14 312:1 321:10 longo 196:23 213:6 230:15 44:11 45:2 46:3 328:10 336:15 197:18 198:13 232:14,16 54:12 55:19,24 339:1 386:6 200:16 201:1 242:11 245:12 56:12 57:4,10 391:12 410:1 203:15 204:13 253:13 254:17 57:19 58:2,3 live 209:7 204:18 205:2 255:5 258:8 63:4 67:15 71:8 living 50:18 205:14 206:8 270:9 278:5 71:13,21 72:6 llp 2:14 3:14 longo's 193:23 284:23 285:10 75:19 80:22 llp 2:14 3:14 longo's 193:23 285:14 286:17 81:3 90:5 95:3 4:16 located 117:20 look 1	16:18 17:4 19:2	491:12,13	429:15 430:16	165:13 170:19
26:16,19,22 529:10,16 little 38:6 89:22 longer 168:6 195:7 196:5 29:18 32:13 90:11 154:7 338:4 345:16 198:18,21 39:1 40:3,8,16 172:24 228:4 491:21 505:19 199:1,12 200:7 40:18,22 41:2 291:10 293:8 506:2 523:8 206:19 208:22 41:14 43:10,14 312:1 321:10 longo 196:23 213:6 230:15 44:11 45:2 46:3 328:10 336:15 197:18 198:13 232:14,16 54:12 55:19,24 339:1 386:6 200:16 201:1 242:11 245:12 56:12 57:4,10 391:12 410:1 203:15 204:13 253:13 254:17 57:19 58:2,3 live 209:7 204:18 205:2 255:5 258:8 63:4 67:15 71:8 living 50:18 205:14 206:8 270:9 278:5 71:13,21 72:6 llc 16:18,19,21 240:15 469:3 279:3 280:15 75:19 80:22 llp 2:14 3:14 longo's 193:23 285:14 286:17 81:3 90:5 95:3 4:16 located 117:20 look 13:5 20:10 299:6 300:1 102:14 166:1 locations 59:17 60:9 304:1 305:22 190:2 19	19:6,10 21:22	519:10,16	434:18 450:3	177:2,9 178:8
27:1,5,10,18 little 38:6 89:22 longer 168:6 195:7 196:5 29:18 32:13 90:11 154:7 338:4 345:16 198:18,21 39:1 40:3,8,16 172:24 228:4 491:21 505:19 199:1,12 200:7 40:18,22 41:2 291:10 293:8 506:2 523:8 206:19 208:22 41:14 43:10,14 312:1 321:10 longo 196:23 213:6 230:15 44:11 45:2 46:3 328:10 336:15 197:18 198:13 232:14,16 54:12 55:19,24 339:1 386:6 200:16 201:1 242:11 245:12 56:12 57:4,10 391:12 410:1 203:15 204:13 253:13 254:17 57:19 58:2,3 live 209:7 204:18 205:2 255:5 258:8 63:4 67:15 71:8 lic 16:18,19,21 240:15 469:3 279:3 280:15 72:16 73:9,15 16:23 17:1,3 469:12 284:23 285:10 75:19 80:22 lip 2:14 3:14 longo's 193:23 285:14 286:17 81:3 90:5 95:3 4:16 204:8 205:6,22 295:11 298:2 95:4 10:18 located 117:20 look 13:5 20:10 299:6 300:1 168:23 169:10 <t< th=""><td>22:4 23:10</td><td>528:21 529:7</td><td>504:23 506:6</td><td>178:20 182:16</td></t<>	22:4 23:10	528:21 529:7	504:23 506:6	178:20 182:16
29:18 32:13 90:11 154:7 338:4 345:16 198:18,21 39:1 40:3,8,16 172:24 228:4 491:21 505:19 199:1,12 200:7 40:18,22 41:2 291:10 293:8 506:2 523:8 206:19 208:22 41:14 43:10,14 312:1 321:10 longo 196:23 213:6 230:15 44:11 45:2 46:3 328:10 336:15 197:18 198:13 232:14,16 54:12 55:19,24 339:1 386:6 200:16 201:1 242:11 245:12 56:12 57:4,10 391:12 410:1 203:15 204:13 253:13 254:17 57:19 58:2,3 live 209:7 204:18 205:2 255:5 258:8 63:4 67:15 71:8 living 50:18 205:14 206:8 270:9 278:5 71:13,21 72:6 lic 16:18,19,21 240:15 469:3 279:3 280:15 75:19 80:22 lip 2:14 3:14 longo's 193:23 285:14 286:17 81:3 90:5 95:3 4:16 204:8 205:6,22 295:11 298:2 95:4 101:18 located 117:20 look 13:5 20:10 299:6 300:1 102:14 166:1 locations 59:17 60:9 304:1 305:22 190:2 191:11 198:19 200:9 61:13 8	26:16,19,22	529:10,16	526:16 528:3	186:2 187:9
39:1 40:3,8,16 172:24 228:4 491:21 505:19 199:1,12 200:7 40:18,22 41:2 291:10 293:8 506:2 523:8 206:19 208:22 41:14 43:10,14 312:1 321:10 longo 196:23 213:6 230:15 44:11 45:2 46:3 328:10 336:15 197:18 198:13 232:14,16 54:12 55:19,24 339:1 386:6 200:16 201:1 242:11 245:12 56:12 57:4,10 391:12 410:1 203:15 204:13 253:13 254:17 57:19 58:2,3 live 209:7 204:18 205:2 255:5 258:8 63:4 67:15 71:8 living 50:18 205:14 206:8 270:9 278:5 71:13,21 72:6 llc 16:18,19,21 240:15 469:3 279:3 280:15 72:16 73:9,15 16:23 17:1,3 469:12 284:23 285:10 75:19 80:22 llp 2:14 3:14 204:8 205:6,22 295:11 298:2 95:4 101:18 located 117:20 look 13:5 20:10 299:6 300:1 102:14 166:1 424:7 43:24 59:10,11 302:22 303:24 169:13 189:22 locations 59:17 60:9 304:1 305:22 190:2 191:11 198:19 200:9 61:13	27:1,5,10,18	little 38:6 89:22	longer 168:6	195:7 196:5
40:18,22 41:2 291:10 293:8 506:2 523:8 206:19 208:22 41:14 43:10,14 312:1 321:10 longo 196:23 213:6 230:15 44:11 45:2 46:3 328:10 336:15 197:18 198:13 232:14,16 54:12 55:19,24 339:1 386:6 200:16 201:1 242:11 245:12 56:12 57:4,10 391:12 410:1 203:15 204:13 253:13 254:17 57:19 58:2,3 live 209:7 204:18 205:2 255:5 258:8 63:4 67:15 71:8 living 50:18 205:14 206:8 270:9 278:5 71:13,21 72:6 lic 16:18,19,21 240:15 469:3 279:3 280:15 72:16 73:9,15 16:23 17:1,3 469:12 284:23 285:10 75:19 80:22 lip 2:14 3:14 longo's 193:23 285:14 286:17 81:3 90:5 95:3 4:16 located 117:20 204:8 205:6,22 295:11 298:2 95:4 101:18 located 117:20 22:8,8 33:8 301:9,10 102:14 166:1 location 283:11 43:24 59:10,11 302:22 303:24 169:13 189:22 locations 59:17 60:9 304:1 305:22 190:2 191:11 198:19 20	29:18 32:13	90:11 154:7	338:4 345:16	198:18,21
41:14 43:10,14 312:1 321:10 longo 196:23 213:6 230:15 44:11 45:2 46:3 328:10 336:15 197:18 198:13 232:14,16 54:12 55:19,24 339:1 386:6 200:16 201:1 242:11 245:12 56:12 57:4,10 391:12 410:1 203:15 204:13 253:13 254:17 57:19 58:2,3 live 209:7 204:18 205:2 255:5 258:8 63:4 67:15 71:8 living 50:18 205:14 206:8 270:9 278:5 71:13,21 72:6 lic 16:18,19,21 240:15 469:3 279:3 280:15 75:19 80:22 lip 2:14 3:14 longo's 193:23 285:14 286:17 81:3 90:5 95:3 4:16 located 117:20 look 13:5 20:10 299:6 300:1 102:14 166:1 location 283:11 424:7 43:24 59:10,11 302:22 303:24 169:13 189:22 locations 59:17 60:9 304:1 305:22 190:2 191:11 198:19 200:9 61:13 83:9,22 311:2,2 315:18 196:10 197:9 long 17:1 45:8 106:9 108:16 30:14 332:1 204:2,20 206:6 53:4,14 56:3 106:9 108:16 30:14 332:1 204:	39:1 40:3,8,16	172:24 228:4	491:21 505:19	199:1,12 200:7
44:11 45:2 46:3 328:10 336:15 197:18 198:13 232:14,16 54:12 55:19,24 339:1 386:6 200:16 201:1 242:11 245:12 56:12 57:4,10 391:12 410:1 203:15 204:13 253:13 254:17 57:19 58:2,3 live 209:7 204:18 205:2 255:5 258:8 63:4 67:15 71:8 living 50:18 205:14 206:8 270:9 278:5 71:13,21 72:6 llc 16:18,19,21 240:15 469:3 279:3 280:15 72:16 73:9,15 16:23 17:1,3 469:12 284:23 285:10 75:19 80:22 llp 2:14 3:14 longo's 193:23 285:14 286:17 81:3 90:5 95:3 4:16 204:8 205:6,22 295:11 298:2 95:4 101:18 located 117:20 look 13:5 20:10 299:6 300:1 102:14 166:1 location 283:11 43:24 59:10,11 302:22 303:24 169:13 189:22 locations 59:17 60:9 304:1 305:22 190:2 191:11 198:19 200:9 61:13 83:9,22 311:2,2 315:18 193:11,18 logan 4:6 86:4 95:11 96:8 324:9 327:4 196:10 197:9 long 17:1 45:8 105:23	40:18,22 41:2	291:10 293:8	506:2 523:8	206:19 208:22
54:12 55:19,24 339:1 386:6 200:16 201:1 242:11 245:12 56:12 57:4,10 391:12 410:1 203:15 204:13 253:13 254:17 57:19 58:2,3 live 209:7 204:18 205:2 255:5 258:8 63:4 67:15 71:8 living 50:18 205:14 206:8 270:9 278:5 71:13,21 72:6 llc 16:18,19,21 240:15 469:3 279:3 280:15 72:16 73:9,15 16:23 17:1,3 469:12 284:23 285:10 75:19 80:22 llp 2:14 3:14 longo's 193:23 285:14 286:17 81:3 90:5 95:3 4:16 located 117:20 look 13:5 20:10 299:6 300:1 95:4 101:18 location 283:11 22:8,8 33:8 301:9,10 102:14 166:1 locations 22:8,8 33:8 301:9,10 168:23 169:10 424:7 43:24 59:10,11 302:22 303:24 169:13 189:22 locations 59:17 60:9 304:1 305:22 190:2 191:11 198:19 200:9 61:13 83:9,22 311:2,2 315:18 193:11,18 logan 4:6 86:4 95:11 96:8 324:9 327:4 196:10 197:9 53:4,14 56:3 1	41:14 43:10,14	312:1 321:10	longo 196:23	213:6 230:15
56:12 57:4,10 391:12 410:1 203:15 204:13 253:13 254:17 57:19 58:2,3 live 209:7 204:18 205:2 255:5 258:8 63:4 67:15 71:8 living 50:18 205:14 206:8 270:9 278:5 71:13,21 72:6 llc 16:18,19,21 240:15 469:3 279:3 280:15 72:16 73:9,15 16:23 17:1,3 469:12 284:23 285:10 75:19 80:22 llp 2:14 3:14 longo's 193:23 285:14 286:17 81:3 90:5 95:3 4:16 204:8 205:6,22 295:11 298:2 95:4 101:18 located 117:20 look 13:5 20:10 299:6 300:1 102:14 166:1 location 283:11 22:8,8 33:8 301:9,10 168:23 169:10 424:7 43:24 59:10,11 302:22 303:24 169:13 189:22 locations 59:17 60:9 304:1 305:22 190:2 191:11 198:19 200:9 61:13 83:9,22 311:2,2 315:18 196:10 197:9 long 17:1 45:8 105:23,24 329:11,24 204:2,20 206:6 53:4,14 56:3 106:9 108:16 330:14 332:1 208:4,15 66:13 79:24 108:24 110:8	44:11 45:2 46:3	328:10 336:15	197:18 198:13	232:14,16
57:19 58:2,3 live 209:7 204:18 205:2 255:5 258:8 63:4 67:15 71:8 living 50:18 205:14 206:8 270:9 278:5 71:13,21 72:6 llc 16:18,19,21 240:15 469:3 279:3 280:15 72:16 73:9,15 16:23 17:1,3 469:12 284:23 285:10 75:19 80:22 llp 2:14 3:14 longo's 193:23 285:14 286:17 81:3 90:5 95:3 4:16 204:8 205:6,22 295:11 298:2 95:4 101:18 located 117:20 look 13:5 20:10 299:6 300:1 102:14 166:1 location 283:11 43:24 59:10,11 302:22 303:24 169:13 189:22 locations 59:17 60:9 304:1 305:22 190:2 191:11 198:19 200:9 61:13 83:9,22 311:2,2 315:18 193:11,18 logan 4:6 86:4 95:11 96:8 324:9 327:4 196:10 197:9 long 17:1 45:8 105:23,24 329:11,24 204:2,20 206:6 53:4,14 56:3 106:9 108:16 330:14 332:1 212:10,21 150:5 152:22 116:3 123:7,12 337:15,23 213:3 237:22 153:12,17 124:12 125:22	54:12 55:19,24	339:1 386:6	200:16 201:1	242:11 245:12
63:4 67:15 71:8 living 50:18 205:14 206:8 270:9 278:5 71:13,21 72:6 llc 16:18,19,21 240:15 469:3 279:3 280:15 72:16 73:9,15 16:23 17:1,3 469:12 284:23 285:10 75:19 80:22 llp 2:14 3:14 longo's 193:23 285:14 286:17 81:3 90:5 95:3 4:16 204:8 205:6,22 295:11 298:2 95:4 101:18 located 117:20 look 13:5 20:10 299:6 300:1 102:14 166:1 location 283:11 22:8,8 33:8 301:9,10 168:23 169:10 424:7 43:24 59:10,11 302:22 303:24 169:13 189:22 locations 59:17 60:9 304:1 305:22 190:2 191:11 198:19 200:9 61:13 83:9,22 311:2,2 315:18 193:11,18 logan 4:6 86:4 95:11 96:8 324:9 327:4 196:10 197:9 long 17:1 45:8 105:23,24 329:11,24 204:2,20 206:6 53:4,14 56:3 106:9 108:16 330:14 332:1 208:4,15 66:13 79:24 106:9 108:16 <td>56:12 57:4,10</td> <td>391:12 410:1</td> <td>203:15 204:13</td> <td>253:13 254:17</td>	56:12 57:4,10	391:12 410:1	203:15 204:13	253:13 254:17
71:13,21 72:6 Ilc 16:18,19,21 240:15 469:3 279:3 280:15 72:16 73:9,15 16:23 17:1,3 469:12 284:23 285:10 75:19 80:22 Ilp 2:14 3:14 longo's 193:23 285:14 286:17 81:3 90:5 95:3 4:16 204:8 205:6,22 295:11 298:2 95:4 101:18 located 117:20 look 13:5 20:10 299:6 300:1 102:14 166:1 location 283:11 22:8,8 33:8 301:9,10 168:23 169:10 424:7 43:24 59:10,11 302:22 303:24 169:13 189:22 locations 59:17 60:9 304:1 305:22 190:2 191:11 198:19 200:9 61:13 83:9,22 311:2,2 315:18 193:11,18 logan 4:6 86:4 95:11 96:8 324:9 327:4 196:10 197:9 long 17:1 45:8 105:23,24 329:11,24 204:2,20 206:6 53:4,14 56:3 106:9 108:16 330:14 332:1 208:4,15 66:13 79:24 108:24 110:8 334:22 335:18 212:10,21 150:5 152:22 116:3 123:7,12 337:1	57:19 58:2,3	live 209:7	204:18 205:2	255:5 258:8
72:16 73:9,15 16:23 17:1,3 469:12 284:23 285:10 75:19 80:22 Ilp 2:14 3:14 longo's 193:23 285:14 286:17 81:3 90:5 95:3 4:16 204:8 205:6,22 295:11 298:2 95:4 101:18 located 117:20 look 13:5 20:10 299:6 300:1 102:14 166:1 location 283:11 22:8,8 33:8 301:9,10 168:23 169:10 424:7 43:24 59:10,11 302:22 303:24 169:13 189:22 locations 59:17 60:9 304:1 305:22 190:2 191:11 198:19 200:9 61:13 83:9,22 311:2,2 315:18 193:11,18 logan 4:6 86:4 95:11 96:8 324:9 327:4 196:10 197:9 long 17:1 45:8 105:23,24 329:11,24 204:2,20 206:6 53:4,14 56:3 106:9 108:16 330:14 332:1 208:4,15 66:13 79:24 108:24 110:8 334:22 335:18 212:10,21 150:5 152:22 116:3 123:7,12 337:15,23 213:3 237:22 153:12,17 124:12 125:22 338:6 339:20 239:4,17 240:9 154:9,14,15 125:23,24 340:1 341:5 </th <td>63:4 67:15 71:8</td> <td>living 50:18</td> <td>205:14 206:8</td> <td>270:9 278:5</td>	63:4 67:15 71:8	living 50:18	205:14 206:8	270:9 278:5
75:19 80:22 Ilp 2:14 3:14 longo's 193:23 285:14 286:17 81:3 90:5 95:3 4:16 204:8 205:6,22 295:11 298:2 95:4 101:18 located 117:20 look 13:5 20:10 299:6 300:1 102:14 166:1 location 283:11 22:8,8 33:8 301:9,10 168:23 169:10 424:7 43:24 59:10,11 302:22 303:24 169:13 189:22 locations 59:17 60:9 304:1 305:22 190:2 191:11 198:19 200:9 61:13 83:9,22 311:2,2 315:18 193:11,18 logan 4:6 86:4 95:11 96:8 324:9 327:4 196:10 197:9 long 17:1 45:8 105:23,24 329:11,24 204:2,20 206:6 53:4,14 56:3 106:9 108:16 330:14 332:1 208:4,15 66:13 79:24 108:24 110:8 334:22 335:18 212:10,21 150:5 152:22 116:3 123:7,12 337:15,23 213:3 237:22 153:12,17 124:12 125:22 338:6 339:20 239:4,17 240:9 154:9,14,15 125:23,24 340:1 341:5 </th <td>71:13,21 72:6</td> <td>llc 16:18,19,21</td> <td>240:15 469:3</td> <td>279:3 280:15</td>	71:13,21 72:6	llc 16:18,19,21	240:15 469:3	279:3 280:15
81:3 90:5 95:3 4:16 204:8 205:6,22 295:11 298:2 95:4 101:18 located 117:20 look 13:5 20:10 299:6 300:1 102:14 166:1 location 283:11 22:8,8 33:8 301:9,10 168:23 169:10 424:7 43:24 59:10,11 302:22 303:24 169:13 189:22 locations 59:17 60:9 304:1 305:22 190:2 191:11 198:19 200:9 61:13 83:9,22 311:2,2 315:18 193:11,18 logan 4:6 86:4 95:11 96:8 324:9 327:4 196:10 197:9 long 17:1 45:8 105:23,24 329:11,24 204:2,20 206:6 53:4,14 56:3 106:9 108:16 330:14 332:1 208:4,15 66:13 79:24 108:24 110:8 334:22 335:18 212:10,21 150:5 152:22 116:3 123:7,12 337:15,23 213:3 237:22 153:12,17 124:12 125:22 338:6 339:20 239:4,17 240:9 154:9,14,15 125:23,24 340:1 341:5	72:16 73:9,15	16:23 17:1,3	469:12	284:23 285:10
95:4 101:18 located 117:20 look 13:5 20:10 299:6 300:1 102:14 166:1 location 283:11 22:8,8 33:8 301:9,10 168:23 169:10 424:7 43:24 59:10,11 302:22 303:24 169:13 189:22 locations 59:17 60:9 304:1 305:22 190:2 191:11 198:19 200:9 61:13 83:9,22 311:2,2 315:18 193:11,18 logan 4:6 86:4 95:11 96:8 324:9 327:4 196:10 197:9 long 17:1 45:8 105:23,24 329:11,24 204:2,20 206:6 53:4,14 56:3 106:9 108:16 330:14 332:1 208:4,15 66:13 79:24 108:24 110:8 334:22 335:18 212:10,21 150:5 152:22 116:3 123:7,12 337:15,23 213:3 237:22 153:12,17 124:12 125:22 338:6 339:20 239:4,17 240:9 154:9,14,15 125:23,24 340:1 341:5	75:19 80:22	llp 2:14 3:14	longo's 193:23	285:14 286:17
102:14 166:1 location 283:11 22:8,8 33:8 301:9,10 168:23 169:10 424:7 43:24 59:10,11 302:22 303:24 169:13 189:22 locations 59:17 60:9 304:1 305:22 190:2 191:11 198:19 200:9 61:13 83:9,22 311:2,2 315:18 193:11,18 logan 4:6 86:4 95:11 96:8 324:9 327:4 196:10 197:9 long 17:1 45:8 105:23,24 329:11,24 204:2,20 206:6 53:4,14 56:3 106:9 108:16 330:14 332:1 208:4,15 66:13 79:24 108:24 110:8 334:22 335:18 212:10,21 150:5 152:22 116:3 123:7,12 337:15,23 213:3 237:22 153:12,17 124:12 125:22 338:6 339:20 239:4,17 240:9 154:9,14,15 125:23,24 340:1 341:5	81:3 90:5 95:3	4:16	204:8 205:6,22	295:11 298:2
168:23 169:10 424:7 43:24 59:10,11 302:22 303:24 169:13 189:22 locations 59:17 60:9 304:1 305:22 190:2 191:11 198:19 200:9 61:13 83:9,22 311:2,2 315:18 193:11,18 logan 4:6 86:4 95:11 96:8 324:9 327:4 196:10 197:9 long 17:1 45:8 105:23,24 329:11,24 204:2,20 206:6 53:4,14 56:3 106:9 108:16 330:14 332:1 208:4,15 66:13 79:24 108:24 110:8 334:22 335:18 212:10,21 150:5 152:22 116:3 123:7,12 337:15,23 213:3 237:22 153:12,17 124:12 125:22 338:6 339:20 239:4,17 240:9 154:9,14,15 125:23,24 340:1 341:5	95:4 101:18	located 117:20	look 13:5 20:10	299:6 300:1
169:13 189:22 locations 59:17 60:9 304:1 305:22 190:2 191:11 198:19 200:9 61:13 83:9,22 311:2,2 315:18 193:11,18 logan 4:6 86:4 95:11 96:8 324:9 327:4 196:10 197:9 long 17:1 45:8 105:23,24 329:11,24 204:2,20 206:6 53:4,14 56:3 106:9 108:16 330:14 332:1 208:4,15 66:13 79:24 108:24 110:8 334:22 335:18 212:10,21 150:5 152:22 116:3 123:7,12 337:15,23 213:3 237:22 153:12,17 124:12 125:22 338:6 339:20 239:4,17 240:9 154:9,14,15 125:23,24 340:1 341:5	102:14 166:1	location 283:11	22:8,8 33:8	301:9,10
190:2 191:11 198:19 200:9 61:13 83:9,22 311:2,2 315:18 193:11,18 logan 4:6 86:4 95:11 96:8 324:9 327:4 196:10 197:9 long 17:1 45:8 105:23,24 329:11,24 204:2,20 206:6 53:4,14 56:3 106:9 108:16 330:14 332:1 208:4,15 66:13 79:24 108:24 110:8 334:22 335:18 212:10,21 150:5 152:22 116:3 123:7,12 337:15,23 213:3 237:22 153:12,17 124:12 125:22 338:6 339:20 239:4,17 240:9 154:9,14,15 125:23,24 340:1 341:5	168:23 169:10	424:7	43:24 59:10,11	302:22 303:24
193:11,18 logan 4:6 86:4 95:11 96:8 324:9 327:4 196:10 197:9 long 17:1 45:8 105:23,24 329:11,24 204:2,20 206:6 53:4,14 56:3 106:9 108:16 330:14 332:1 208:4,15 66:13 79:24 108:24 110:8 334:22 335:18 212:10,21 150:5 152:22 116:3 123:7,12 337:15,23 213:3 237:22 153:12,17 124:12 125:22 338:6 339:20 239:4,17 240:9 154:9,14,15 125:23,24 340:1 341:5	169:13 189:22	locations	59:17 60:9	304:1 305:22
196:10 197:9 long 17:1 45:8 105:23,24 329:11,24 204:2,20 206:6 53:4,14 56:3 106:9 108:16 330:14 332:1 208:4,15 66:13 79:24 108:24 110:8 334:22 335:18 212:10,21 150:5 152:22 116:3 123:7,12 337:15,23 213:3 237:22 153:12,17 124:12 125:22 338:6 339:20 239:4,17 240:9 154:9,14,15 125:23,24 340:1 341:5	190:2 191:11	198:19 200:9	61:13 83:9,22	311:2,2 315:18
204:2,20 206:6 53:4,14 56:3 106:9 108:16 330:14 332:1 208:4,15 66:13 79:24 108:24 110:8 334:22 335:18 212:10,21 150:5 152:22 116:3 123:7,12 337:15,23 213:3 237:22 153:12,17 124:12 125:22 338:6 339:20 239:4,17 240:9 154:9,14,15 125:23,24 340:1 341:5	193:11,18	logan 4:6	86:4 95:11 96:8	324:9 327:4
208:4,15 66:13 79:24 108:24 110:8 334:22 335:18 212:10,21 150:5 152:22 116:3 123:7,12 337:15,23 213:3 237:22 153:12,17 124:12 125:22 338:6 339:20 239:4,17 240:9 154:9,14,15 125:23,24 340:1 341:5	196:10 197:9		·	329:11,24
212:10,21 150:5 152:22 116:3 123:7,12 337:15,23 213:3 237:22 153:12,17 124:12 125:22 338:6 339:20 239:4,17 240:9 154:9,14,15 125:23,24 340:1 341:5	· ·			
213:3 237:22 153:12,17 124:12 125:22 338:6 339:20 239:4,17 240:9 154:9,14,15 125:23,24 340:1 341:5	′			
239:4,17 240:9	,		·	
		· · · · · · · · · · · · · · · · · · ·	124:12 125:22	
252:10 269:4 169:3 188:24 127:22 128:18 342:19 343:15	· · · · · · · · · · · · · · · · · · ·	· · ·	·	
	252:10 269:4	169:3 188:24	127:22 128:18	342:19 343:15

[look - made] Page 56

344:20,22 221:17 236:3 313:13 317:22 280:15 303:19 345:6,16 236:21 237:3 318:1 320:10 312:10,11 347:20,20 245:24 249:18 334:5,23 352:2 347:21 348:17 351:5,6 355:8 290:11 299:10 357:6 363:2 372:2 415:12 356:2 363:1 319:21 324:2 371:3 379:18 lowest 314:7 364:10,15 334:6 345:12 391:24 404:23 ludicrous 365:13,16,22 412:15,16 407:19 413:18 373:10 366:3 367:23 413:7,16 415:2 433:4 485:2 lump 122:12 371:2 380:23 415:12,19 489:22 499:5 lumped 141:8 385:5,14 387:3 416:2 420:1 503:9,19 lunch 218:9 399:23 401:5 447:24,24 523:14 528:15 217:17 409:14 416:8 456:23 459:11 looks 34:7 45:3 lung 138:22 419:20,21 502:24 503:14 76:20 399:7 139:6 149:10 421:24 425:5 521:22 524:24 lot 14:2 76:20 151:8,11
347:20,20 245:24 249:18 334:5,23 352:2 347:21 348:17 351:5,6 355:8 290:11 299:10 357:6 363:2 372:2 415:12 356:2 363:1 319:21 324:2 371:3 379:18 lowest 314:7 364:10,15 334:6 345:12 391:24 404:23 ludicrous 365:13,16,22 412:15,16 407:19 413:18 373:10 366:3 367:23 413:7,16 415:2 433:4 485:2 lump 122:12 371:2 380:23 415:12,19 489:22 499:5 lumped 141:8 385:5,14 387:3 416:2 420:1 503:9,19 lunch 218:9 399:23 401:5 446:7 447:10 515:13 518:14 luncheon 399:23 401:5 447:24,24 523:14 528:15 217:17 409:14 416:8 456:23 459:11 looks 34:7 45:3 lung 138:22 419:20,21 502:24 503:14 76:20 399:7 139:6 149:10 421:24 425:5 521:22 524:24 lot 14:2 76:20 151:8,11
351:5,6 355:8 290:11 299:10 357:6 363:2 372:2 415:12 356:2 363:1 319:21 324:2 371:3 379:18 lowest 314:7 364:10,15 334:6 345:12 391:24 404:23 ludicrous 365:13,16,22 412:15,16 407:19 413:18 373:10 366:3 367:23 413:7,16 415:2 433:4 485:2 lump 122:12 371:2 380:23 415:12,19 489:22 499:5 lumped 141:8 385:5,14 387:3 416:2 420:1 503:9,19 lunch 218:9 399:23 401:5 446:7 447:10 515:13 518:14 luncheon 399:23 401:5 447:24,24 523:14 528:15 217:17 409:14 416:8 456:23 459:11 looks 34:7 45:3 lung 138:22 419:20,21 502:24 503:14 76:20 399:7 139:6 149:10 421:24 425:5 521:22 524:24 lot 14:2 76:20 151:8,11
356:2 363:1 319:21 324:2 371:3 379:18 lowest 314:7 364:10,15 334:6 345:12 391:24 404:23 ludicrous 365:13,16,22 412:15,16 407:19 413:18 373:10 366:3 367:23 413:7,16 415:2 433:4 485:2 lump 122:12 371:2 380:23 415:12,19 489:22 499:5 lumped 141:8 385:5,14 387:3 416:2 420:1 503:9,19 lunch 218:9 396:5 397:4,9 446:7 447:10 515:13 518:14 luncheon 399:23 401:5 447:24,24 523:14 528:15 217:17 409:14 416:8 456:23 459:11 looks 34:7 45:3 lung 138:22 419:20,21 502:24 503:14 76:20 399:7 139:6 149:10 421:24 425:5 521:22 524:24 lot 14:2 76:20 151:8,11
364:10,15 334:6 345:12 391:24 404:23 ludicrous 365:13,16,22 412:15,16 407:19 413:18 373:10 366:3 367:23 413:7,16 415:2 433:4 485:2 lump 122:12 371:2 380:23 415:12,19 489:22 499:5 lumped 141:8 385:5,14 387:3 416:2 420:1 503:9,19 lunch 218:9 396:5 397:4,9 446:7 447:10 515:13 518:14 luncheon 399:23 401:5 447:24,24 523:14 528:15 217:17 409:14 416:8 456:23 459:11 looks 34:7 45:3 lung 138:22 419:20,21 502:24 503:14 76:20 399:7 139:6 149:10 421:24 425:5 521:22 524:24 lot 14:2 76:20 151:8,11
365:13,16,22 412:15,16 407:19 413:18 373:10 366:3 367:23 413:7,16 415:2 433:4 485:2 lump 122:12 371:2 380:23 415:12,19 489:22 499:5 lumped 141:8 385:5,14 387:3 416:2 420:1 503:9,19 lunch 218:9 396:5 397:4,9 446:7 447:10 515:13 518:14 luncheon 399:23 401:5 447:24,24 523:14 528:15 217:17 409:14 416:8 456:23 459:11 looks 34:7 45:3 lung 138:22 419:20,21 502:24 503:14 76:20 399:7 139:6 149:10 421:24 425:5 521:22 524:24 lot 14:2 76:20 151:8,11
366:3 367:23 413:7,16 415:2 433:4 485:2 lump 122:12 371:2 380:23 415:12,19 489:22 499:5 lumped 141:8 385:5,14 387:3 416:2 420:1 503:9,19 lunch 218:9 396:5 397:4,9 446:7 447:10 515:13 518:14 luncheon 399:23 401:5 447:24,24 523:14 528:15 217:17 409:14 416:8 456:23 459:11 looks 34:7 45:3 lung 138:22 419:20,21 502:24 503:14 76:20 399:7 139:6 149:10 421:24 425:5 521:22 524:24 lot 14:2 76:20 151:8,11
371:2 380:23 415:12,19 489:22 499:5 lumped 141:8 385:5,14 387:3 416:2 420:1 503:9,19 lunch 218:9 396:5 397:4,9 446:7 447:10 515:13 518:14 luncheon 399:23 401:5 447:24,24 523:14 528:15 217:17 409:14 416:8 456:23 459:11 looks 34:7 45:3 lung 138:22 419:20,21 502:24 503:14 76:20 399:7 139:6 149:10 421:24 425:5 521:22 524:24 lot 14:2 76:20 151:8,11
385:5,14 387:3 416:2 420:1 503:9,19 lunch 218:9 396:5 397:4,9 446:7 447:10 515:13 518:14 luncheon 399:23 401:5 447:24,24 523:14 528:15 217:17 409:14 416:8 456:23 459:11 looks 34:7 45:3 lung 138:22 419:20,21 502:24 503:14 76:20 399:7 139:6 149:10 421:24 425:5 521:22 524:24 lot 14:2 76:20 151:8,11
396:5 397:4,9 446:7 447:10 515:13 518:14 luncheon 399:23 401:5 447:24,24 523:14 528:15 217:17 409:14 416:8 456:23 459:11 looks 34:7 45:3 lung 138:22 419:20,21 502:24 503:14 76:20 399:7 139:6 149:10 421:24 425:5 521:22 524:24 lot 14:2 76:20 151:8,11
399:23 401:5 447:24,24 523:14 528:15 217:17 409:14 416:8 456:23 459:11 looks 34:7 45:3 lung 138:22 419:20,21 502:24 503:14 76:20 399:7 139:6 149:10 421:24 425:5 521:22 524:24 lot 14:2 76:20 151:8,11
409:14 416:8 456:23 459:11 looks 34:7 45:3 lung 138:22 419:20,21 502:24 503:14 76:20 399:7 139:6 149:10 421:24 425:5 521:22 524:24 lot 14:2 76:20 151:8,11
419:20,21 502:24 503:14 76:20 399:7 139:6 149:10 421:24 425:5 521:22 524:24 lot 14:2 76:20 151:8,11
421:24 425:5 521:22 524:24 lot 14:2 76:20 151:8,11
444:16 458:14 looking 19:21 145:13 166:9 483:22 486:24
474:12 475:1,5 31:23 34:18 173:18 222:2 487:11
493:23 495:7 44:23 45:15 236:3 341:6 lydia 277:2
495:15,17 48:1,19 55:11 354:17 355:16 lynch 156:13
496:16 497:11 61:11 77:6 81:6 389:24 410:20 lynda 208:19
497:18 498:14 95:8 103:18 411:18 418:9 m
498:20 503:13
508:4,9,19 131:19 139:23 460:16 473:20 66:9 81:24 82:
509:7 513:10
515:2 518:2,6 163:5 164:9 love 240:4 134:21 135:12
518:13,15
521:14 522:13
522:17 523:5 195:12 205:22 406:16 408:16 204:19 236:23
529:3 531:18
looked 22:20 249:14 250:17 409:2,12,24 254:12,19
33:11,12,18 251:24 253:16 410:10 498:17 275:15 281:6,9
40:12 72:20 257:19 265:4 501:24 281:9 282:23
78:24 89:1 272:3 277:16 lower 95:10 283:1,4 284:2
103:2 113:11
122:23 141:2 289:12 291:16 259:11,15 300:10 319:22 332:3 344:9,13
144:14 170:5 298:8 308:11 260:5 265:7

[made - material]

Page 57

_			C
346:24 352:19	318:22 323:8,8	maneuver	92:21 94:5,9
425:13 428:2	330:12,19	418:7	98:13 100:6
452:14 463:24	338:24 341:3	manner 439:21	161:17,19
465:4 486:17	344:18 345:20	manufactured	166:19,23
513:22 514:2	347:5 348:3,13	226:23	167:12 171:4
515:9 525:15	350:21,22	manuscripts	180:3 188:11
529:5	354:14 357:8	15:14	194:22 195:20
magnitude	361:4,7,8 362:9	march 5:12	212:23 245:20
234:3,23 512:8	367:1 370:14	7:10 11:14	249:3,5 270:5
mail 79:12	373:4 376:15	42:10,18	276:2,7 277:24
mails 79:14	376:15 378:18	270:11,14	285:3 296:15
main 72:1	378:20 388:14	482:23 539:24	296:18 326:14
283:19 284:5	392:18 397:1,6	marital 447:5	326:15 332:15
287:15 288:14	397:13 398:23	mark 4:17	332:17 341:20
293:21 294:13	404:4 414:24	19:24 42:7,13	341:21 350:1
330:21	426:13 485:5	76:3,5,6 86:23	361:21 368:16
major 256:4	492:16,19	92:14 98:9	368:18 373:15
majority 144:6	498:4 506:8	109:16 166:21	373:16 379:4,6
183:10	507:23 510:11	167:7 171:2	398:3,9 421:6
make 13:21	515:5 520:6,6	180:2 194:20	421:12,19
14:6,21 18:22	528:18 531:4	245:16,17	429:21,23
31:21 43:1 47:7	533:7	268:20 270:2	432:13,20
61:11 76:7	makes 14:2	275:21 284:22	437:15 443:22
136:17 139:12	142:9 207:16	285:17 349:11	454:8 467:18
142:3 144:5,13	427:22 520:11	349:22 361:17	475:2 477:5,11
153:18 171:20	making 41:3	398:1,6 421:10	482:20 508:2
186:23 189:10	63:2 128:17	432:14 437:13	market 389:24
201:2,19	133:11 136:14	474:13,16	marketing 1:7
206:20 226:16	160:2 169:7	482:9 492:17	marking 20:7
241:24 247:2,8	229:7 244:14	528:6	60:19 76:12
248:10 250:10	280:10 306:14	marked 15:22	94:2
257:6 260:10	366:21	20:2 42:14	mas 1:6
268:13 278:3	management	44:13,18 47:1	master's 25:3,4
282:10 292:17	411:3	60:21 66:1	310:16
295:1,15	mandate	76:15 80:23	material 39:20
298:15,19,22	533:14 534:1,5	83:13,16 92:17	

[materials - members]

Page 58

materials 15:17 129:15 142:18 measures 87:9 441:5 448:5 16:2 17:19 168:24 190:20 111:10 125:16 479:10 488:3 39:16 74:5 199:12,16 131:15 364:20 medication	
	20
39:16 74:5 199:12,16 131:15 364:20 medication	
77:14,18 91:11 202:9 214:3,18 442:13 147:11	
163:3 193:22 216:4,16 mechanism medications	
198:14 213:19 223:24 228:18 84:12 85:11 147:8	
213:21,23 233:21 241:14 111:20 133:16 medium 498	:18
215:3,6,9 242:18 260:6 134:1,10,24 medline 46:1	12
235:22 392:21	5
393:1,13,17 294:18 301:9 136:20 137:4,7 meet 48:17	
500:24 501:4 303:8 316:11 137:14,17,18 53:11,14	
535:4 316:18 317:19 138:11,24 533:20 534:	14
matter 27:10 331:4,5 339:21 139:11 158:14 534:21	
27:18 35:3 367:5 370:5 223:15 260:14 meeting 50:2	20
218:16,21 376:5 410:21 260:15 357:9 50:22 51:1,1	2
219:1 538:6 468:22 498:2,3 357:10,23 52:2,6,12,24	•
matters 26:16 522:3 523:7 360:12,20 53:4,17,18 5	4:1
26:19,22 27:1,1 527:13 532:23 456:14 479:2 56:19,21 78:	21
27:5 32:13 meaning 487:18 488:4 157:2 253:14	4
mcdonald 8:12 134:13 154:10 488:14 273:20 435:	19
349:8,19 155:12 283:6 mechanisms 435:22 436:	19
350:10 352:15 284:6 350:23 136:1 137:2 440:6 444:7	,11
353:5 354:21 means 27:18 138:3,3 357:11 451:22 452:	1
355:19 391:15 103:12,14 media 168:5 452:20 453:	5
392:1 206:1,2,3 260:7 390:1 470:6	
mcshane 362:7 303:16 313:18 mediators meetings 52	:17
mctiernan 69:4 326:23 327:16 131:1 53:18 70:2 8	
mdl 1:5 3:13 455:23,24 medical 26:3 meets 233:22	2
43:10 201:9,12 456:1 512:17 35:6 62:9 65:1 meghan 61:2	20
201:23 203:3 meant 480:2 65:3,11,19 62:4	
208:14 516:14 159:13 190:8 member 276	5:21
mean 13:16 measure 191:24 192:18 277:1	
14:20 49:7 50:5 122:13 127:13 192:23 262:22 members 59	-
51:7 61:23 362:24 516:8 277:2 305:2 273:18 276:	
86:16 101:23 measured 360:7 426:23 276:19 277:	
103:13 112:10	13

Document 33008-56 PageID: 211408

[mentioned - misreport]

Page 59

mentioned 15:3	404:15 407:11	microscopy	minimum
56:13,14,17	method 163:3	8:12	151:20 348:18
71:16,17,17	316:14	middle 95:11	mining 309:12
91:3 122:20	methodologic	117:22 126:20	minnesota
152:9 157:20	78:9	148:23 177:9	25:16,19
192:14 209:11	methodological	184:17 303:20	minute 199:2
235:7 245:15	112:17	323:7 330:17	481:20 482:16
249:20 314:4	methodology	365:14,20	minutes 253:13
322:15 370:13	34:18 109:4,10	387:9 475:10	417:11 451:20
379:3 389:8	109:24 111:17	484:5,5,20	451:21 452:5
423:24 424:21	159:15 160:8	523:21	492:8,9 526:24
451:3 469:12	228:23 229:4	migrate 264:2	527:9,23,24
mentor 80:5	229:11 230:10	264:13 445:7	528:11,13
333:10,12,23	230:18,19	migrating	mischaracteri
merely 103:12	243:16 245:4	456:8	72:8 250:10
244:13 312:8	309:16,18,21	migration 8:8	misclassificat
382:15 388:20	310:3 311:14	137:19 184:21	111:18,23
merged 405:1	311:16 316:24	429:7	112:2 172:22
merit 2:22	317:4,11 320:4	mind 142:21	173:20 185:8
mesothelioma	320:9,21	154:17 155:16	229:21 233:17
203:18 305:9	457:23 458:1,4	242:18 352:1	314:17 319:23
483:22 487:1	460:6 533:21	421:17 497:1	324:19 338:18
487:11	methods	mine 18:2	386:20 449:13
mess 276:11	205:22 241:10	162:15 341:1	450:1 512:15
met 48:16 80:3	241:18,21	354:16 443:15	misinterpreted
80:4 204:12	320:16 332:2	mined 309:5,11	289:11 291:6
245:1 491:10	366:13,14	424:6	misleading
meta 7:16 9:5	508:10,20	mineral 206:14	291:8 358:19
102:10 115:1	mhegarty 4:21	308:9	misleads
132:1,1 236:11	mice 219:12	mineralogist	261:13
237:19,24	michelle 3:15	308:19	misquoted
280:1 322:23	49:23,24 51:8	mineralogy	353:4
323:2 336:9	53:2 175:20	308:15	misread 351:4
397:23 401:24	492:7	minimal 386:6	misreport
402:4,8,17,17	michelle's	minimize	386:18
403:22 404:1	497:12	378:22	

[missed - national]

Page 60

missed 58:17	modest 132:4,5	month 14:17	murray 371:22
missing 21:10	335:23	43:20 155:16	382:22
misspoke 74:12	modestly 129:6	189:16 273:19	musser 262:4,5
356:23 379:11	modifiable	months 17:2	mutagenic
misstates	147:24	433:6 504:19	478:9
107:12 117:13	modification	504:22 505:16	mutation
117:17 118:6	50:3,4 164:24	505:20,22,23	156:10
120:8 121:18	165:10 185:1	506:4,6	mute 34:8
136:12 175:17	modifications	moor 13:4	n
184:7 198:16	50:15,16	moore 421:1	. –
240:11 241:2	modified 48:16	moorman 13:7	n 4:7 12:1 name 12:14
243:20 287:23	50:6 213:16	13:8,9,15 69:9	
358:10 412:22	modify 48:3,13	moorman's	13:10,17 14:13 16:23 18:15,17
435:10 465:18	modifying	13:14 14:15	54:4 56:14,16
466:19 468:17	78:15,22	54:18	68:23 100:3
489:15 514:13	moldurano	morning 12:11	170:21 202:5
514:15 517:16	208:23	12:12 212:22	
520:24 525:3,4	moment 36:7	motley 61:17	207:3 474:4
misstating	43:17 50:17	mougey 3:5	508:23 509:4
119:6,8	98:7 192:14	mouth 64:19	names 13:13
mistake 284:3	249:1,20	move 242:19	51:4,24 52:4
mistakenly	292:16 295:9	464:23 482:13	56:17 59:7,14 59:17 61:15,19
363:15	334:22 369:3	moved 515:12	,
mitigated	370:13 389:8	mparfitt 3:19	71:19 208:16
452:16	416:12 517:19	mucinous	208:22,24
mitigation	moments 74:5	140:9,17,22	209:10 211:4
436:17	monday 53:9	143:24 145:2	napkins 423:3
mixes 298:11	53:10	multiple 8:9	447:6
mixing 299:12	money 204:18	102:8 139:12	narrow 102:11 330:6 348:16
300:12,17	monograph	148:18 318:8	401:10
303:1	88:7,15,19,24	322:10 341:1	national 265:4
mo 4:19	89:1,12 221:3,6	368:5,5	287:2 411:17
models 219:10	221:9,13,16,23	multivariate	438:8 442:17
219:20 478:7	monotonically	181:8 304:4	
modern 80:20	131:14	447:4	460:17,21
L	1	1	1

[naturally - nonusers]

Page 61

naturally	263:20 332:10	neither 128:8	news 390:1
298:13	416:13,19	506:19 539:13	newsome
nature 362:16	443:10 483:16	539:15	208:20
412:15 415:14	need 22:21	ness 69:21 70:6	nhs 285:16
nci 7:7,11	109:22 127:2,3	70:12,21 71:5	286:2,9,23
265:17 266:2	147:14 148:9	neurodevelop	288:13
266:16,18,23	199:12 200:5,7	28:5 29:4	nih 264:16,20
266:24 267:1,8	222:3 235:21	neurologic	264:24 265:9
267:12,16	242:11 255:1,7	31:17,24 32:23	265:10,13
268:3 269:5,9	257:5,10 275:3	33:10	nine 175:3,5
269:10,19,21	275:3 279:3	never 14:24	234:6
270:4,14	296:3 300:18	17:20,20 35:13	nods 231:15
271:14,17,24	315:4 332:6	36:17,20,23	411:23 469:15
272:12 277:6,6	345:2,6,16	37:2 57:20 66:7	493:8
277:16 278:3	352:24 353:12	70:4 81:24 82:5	noel 80:6 333:8
287:13 288:4,6	355:1 360:10	153:14 176:17	340:16
288:10 289:21	364:9 371:17	297:22 305:15	non 174:20
290:19 292:1	371:23 397:9	305:21 306:5	206:14,24
292:11 293:18	420:10 425:18	306:20 307:1,4	231:21 318:11
nci's 268:13	431:16 443:11	324:13 353:6	318:24 338:16
270:4	448:11 492:1,5	353:21 364:7	338:19 339:11
nearly 131:12	497:15 522:8	383:1 384:10	340:11 433:6
necessarily	needed 22:18	386:16 390:22	511:1 512:6,8
144:18 172:19	109:18 178:1	407:20 473:22	512:14
182:14 196:18	178:11 443:12	514:5	nondifferential
208:6 227:12	502:6 503:2	new 1:2 4:3 7:1	512:15
233:21 267:17	needs 110:2,2,8	63:3 120:10	nonexistent
268:4 316:21	110:12,13	133:18 148:7	95:23
336:7 354:1	150:17 255:16	172:20 201:9	nonpatent
387:1 412:10	255:17 257:24	201:12,23	375:1 378:2,11
456:6	315:5 346:7	203:4 208:15	nonridiculous
necessary 43:1	390:14 427:15	227:14 236:8,8	377:11
150:9 151:1,21	427:18 441:20	298:23 323:1,2	nonscientific
152:4 207:19	negative 350:24	387:16 478:21	311:13
222:8 225:7,19	352:21 354:22	535:15	nonusers
226:16 227:8	355:18		375:18

[normally - object]

Page 62

normally 13:23	314:2 372:2,24	398:7 399:12	287:1,4,16,19
101:17	475:8,9 512:16	399:13,17	288:15,18
notary 2:22	number 5:9	411:4,5 421:7	294:5,20 301:5
539:4,21	10:2 15:21 18:1	421:11 426:1	302:21 303:23
note 40:6 84:7	19:24 20:7,10	429:21 437:14	304:9,11 324:1
104:11 171:20	44:13,19,23	437:23 443:15	326:2 368:13
196:1 213:9	45:15 47:1 49:8	443:18 454:1,3	368:17 373:23
323:10 344:6	49:14 52:9	454:5 467:11	385:5,16,20
370:18 386:4	55:18 60:20	470:18 474:12	386:14 387:4
399:17 513:6	65:5 66:2 76:4	477:5,6 482:10	388:17,18
notebook	76:6,8,12,21	494:13,13	419:19 420:20
496:21	77:1,6 83:14,19	496:18 497:13	420:24 422:7
notebooks	92:15,22 94:3,9	497:19,19	474:11 475:6
15:18,21,22	98:10,24 100:7	510:18 529:24	475:14 476:17
16:1 47:1,2,4	104:20 116:4	numbered 93:1	477:2 493:14
noted 85:21	126:15 135:13	numbers 142:2	493:22,23
328:3 334:13	152:20,21	162:15,15	495:7 496:1
336:24 404:14	154:4,5 155:15	280:9,12 494:8	502:23 521:16
408:19 450:8	155:17 161:18	numerical	o'brien's
472:15	166:22 179:11	236:19	294:16 385:10
notes 16:5	188:11 195:20	nurses 175:13	419:20,21
101:4 255:10	206:4 212:23	176:6,14,20	478:24
noteworthy	221:16 247:21	179:21 182:15	o'dell 49:24
412:18 413:9	252:1 277:19	261:5 284:15	51:8 71:18
notice 2:20	285:2 296:16	284:20 285:13	oath 471:12
november 5:17	296:21 297:3	293:23 295:21	538:13
6:6 7:6 8:13	300:5,6,17,20	296:10 323:18	obesity 130:22
11:3 50:24	301:1 314:16	367:16 496:4	157:3,17
56:22 73:5,8	322:13 332:16	nw 2:15 3:16	object 18:8
74:10,11,14,16	334:16 336:9	0	41:18 64:11,14
82:7,10 126:15	337:4 338:11	o 12:1	105:16,17
213:16 216:13	341:20 348:6	o'brien 3:5 8:19	203:4 214:1
ntp 252:17,22	357:21 363:1	10:6 237:18	216:3 231:8
253:5,11	368:17 373:15	282:15,21	232:1 275:16
null 260:11	373:19 379:5	283:21 286:21	305:19 372:12
303:8 313:14	386:5 389:9	203,21 200,21	464:14 480:18

[object - obtained]

Page 63

[• · · , • · · · · · · · · · · · · · · · · · ·			- 1.61
535:11	210:9 214:1,10	419:3,13 423:8	488:6,16,23
objecting 110:5	217:6 219:8	423:21 424:10	489:5 490:2,12
175:21	220:10 222:10	424:18 425:16	490:24 491:15
objection 29:24	223:10 225:10	427:9 428:6,18	494:15 495:9
30:1,23 38:12	225:11,22	429:8,16 432:5	495:20 498:24
40:9 41:5 45:21	240:10,21	433:12 434:6	499:18 502:12
63:6,7 64:5	241:1 242:6,7	435:9,24 437:1	514:9,12
72:7 87:13	243:19 250:9	439:2 440:1,16	517:15,22
97:10,11 100:8	257:22 262:21	440:24 441:8	519:18 520:17
101:21 102:17	263:1,13,22	442:19 444:12	520:23 522:11
103:10 104:24	265:20 266:5,6	445:1,8,15	525:2,3 526:4
105:12 107:10	267:4,19	446:10 447:13	528:22,23
108:1,20	271:18 272:18	448:8 449:19	531:16 532:15
111:14 117:12	275:19 277:9	450:24 451:7	533:23 535:2
118:5,20 119:3	279:2 287:22	451:12 452:6	objections 63:8
120:7 121:17	288:20 289:7,9	452:18,22	118:23 275:8
123:1 135:2	291:3 300:8	453:12,21	275:15 536:10
136:10,11,23	301:7 306:8	455:5,13	objective 317:3
136:24 137:9	311:18 312:24	456:19 457:10	317:18
138:4,13	313:20 315:11	458:6 459:7,19	observation
141:12 146:8	317:5,14	460:1,11	533:7
148:15 149:14	320:13 322:8	461:14,23	observational
150:12,13	324:14 327:12	462:15 463:1,7	236:7 408:10
151:4,22	329:21 334:21	463:19 464:9	408:15 439:12
152:12 155:24	354:24 355:21	464:19 465:6	501:21
159:18 160:9	358:9,17	465:14 466:5	observed 85:22
160:17 166:7	360:17 372:7	466:18 468:5	92:2 131:23
175:16 178:16	372:14 376:2	468:12 469:18	168:9 170:8
179:8 180:11	376:15,15	470:13 472:5	181:6 186:5,23
180:13,18	380:16 383:8	472:19 473:4	226:13 228:2
181:13 183:3	384:2,19	473:15 474:1	281:23 348:5
184:3,6 185:14	394:15 396:10	475:17 476:13	371:19 386:13
187:2 192:7	401:4 402:19	478:13 479:4	obtain 128:5
193:2 197:21	405:23 408:23	479:13 480:11	251:23 370:8
198:15 199:7	410:11 412:19	481:14 482:4	obtained 47:6
201:22 203:24	413:11 418:20	485:20 487:21	74:6 233:4

[obvious - okay]

Page 64

[obvious onuy]			1 450 01
obvious 87:2	295:4,7,18,22	302:9 304:10	177:17 181:17
234:18	299:3,16 302:6	321:17 326:9	181:22 189:5
obviously 56:4	327:19 337:18	327:2,3 336:7	191:6 195:13
64:15 80:2	399:15 411:20	344:3 346:22	199:4,12 200:3
107:18 234:14	457:2 511:9	351:14,19	200:14 239:15
237:3 447:20	523:24	362:14,18	239:19 243:6
535:10	offer 213:2	365:24 373:5	248:21 250:3
occasion	449:12 538:12	374:20 376:21	255:20 258:6
425:14	offered 218:18	385:10,10	268:21,23
occupation	218:20 387:15	406:13 426:2,4	273:3,11 288:5
23:12	387:16	436:11 438:19	293:11 294:21
occur 158:15	offering 218:12	448:20 449:7	294:24 295:12
223:17 235:1	office 46:19	450:12 454:4	329:1 336:18
325:10 390:14	47:11 68:11	460:23 470:19	340:5 341:10
424:5 450:2	offices 2:12	482:15 492:23	345:19 351:24
occurred 86:7	official 363:15	497:22 504:13	354:17 355:5
129:2 235:1	ogunsina 11:7	516:2 530:3	372:18 378:8
335:16 344:8	oh 35:19 45:13	531:23	389:7 397:12
344:12 346:23	54:4 57:18	okay 13:6,11	397:20 411:14
occurrence	61:16,23 62:2	20:8 21:1,11	418:24 419:7
462:21	66:11 76:23	26:2 31:2,13	419:18,24
occurring 56:4	77:7,17,18 84:3	34:10,15 63:16	421:5 422:13
388:12	84:17,17,17,24	63:16 67:11	422:17 423:1
october 6:3,17	94:10 95:4,17	73:2 76:11 85:1	423:12,19
7:23 10:17,20	99:8 106:15	88:13 93:4,6	424:13 425:9
44:15 45:16	122:6 125:5	98:20 108:19	425:12,20,20
48:2,15 49:17	127:18 162:17	108:22 109:17	425:23 426:19
odd 188:1	164:13 165:7	115:11 118:24	427:3,24
odds 32:2,23	177:7 194:11	120:9 124:20	428:11 429:20
84:10 85:9,22	194:11 195:13	125:11 127:4,9	430:6,11,13,18
102:4,14 103:4	195:13 196:17	127:18 133:19	431:2,14 432:1
103:7,9,12	230:12 239:10	153:23,23	432:12 433:21
145:1 167:24	260:22 268:19	154:4 162:6,20	434:14 435:4
168:7,10	273:10,11	163:2,16	435:16,21
178:24 187:21	280:4 283:17	164:14,21	436:13,18
187:21 233:9	295:16,19	175:23 177:13	438:20 439:6,9

[okay - opportunity]

Page 65

440:4,8,12,20	495:1,14 496:3	online 22:20	226:16,21
441:4,13 443:6	496:5,8,8,14,24	167:10,15	227:1,6 262:7
444:9,16,22	497:14,22	ontario 411:8	263:18 292:10
445:5,12,19	498:10,14,20	open 115:24	306:6,20
446:15,21	500:2,8 501:10	148:7 295:10	360:15 389:12
448:14 450:6,8	501:17 503:5	322:1 326:3	390:5,6,19
450:19 454:11	511:5 515:14	335:13 342:24	404:18 410:13
455:9 456:5,12	520:2 523:4,12	372:1 446:22	414:10,19,22
456:23 457:6	523:13 524:16	508:22	416:20 418:5
457:19 458:3	528:12,13	opinion 29:22	419:1 449:12
459:11 461:4	529:23 534:22	30:13,15 31:1,5	487:17,24
461:12,18	old 48:14	32:22 33:2,5	488:2 496:9
462:3,19 463:4	older 183:13	41:21 63:21	506:5 510:9,14
463:11,23	229:24 302:20	64:3 81:8,14,17	opinions 50:8
465:2,11 466:1	337:18	81:21 89:14	108:14 148:11
466:14 467:2	once 80:3 151:9	90:1,3,24 91:1	153:1 190:1,8
467:10 468:24	154:22 184:9	102:13 106:6	190:13 191:10
468:24 469:2,5	189:15,16	137:6 140:4,16	191:15,18,22
469:10,16	297:18,19	141:10,20	192:1,4,11
470:1,3,23	298:6,12	142:5,7 145:6	193:16 207:19
471:9,22 472:3	417:13 478:7	145:19 146:4	208:3,10 213:2
472:9,12 473:8	oncologist	146:13,18,19	213:8,15,22
473:19 474:8	69:13 193:10	146:20,23,24	214:23 215:4
474:11,23	oncologists	147:7 148:13	216:1 217:5
476:11 477:1	26:6,8 190:5	149:1 150:1,11	218:12,16,19
478:4,20	oncology 305:3	150:24 151:17	218:21 219:5
480:14 482:7	395:12	151:19 152:3	220:5 310:20
482:19 484:13	ones 48:14	152:16 158:17	319:18 321:5
484:18,22	124:19 144:17	158:21 160:2	383:7 464:1
485:7,16	157:19 234:14	186:9,17,22	499:21 535:7
486:10 487:14	234:19,21	188:23 189:5,7	535:15,18
488:11,19	235:3 236:1	206:23 207:2	opportunity
489:20 491:18	323:2 330:3	208:8 222:6,14	178:20 274:17
492:10 493:12	336:1	222:20,23	275:1 427:5
493:18,21	ongoing 29:14	224:8,11 225:6	436:15 456:10
494:3,6,12,21	168:4	225:18 226:3,9	

[opposed - ovarian]

Page 66

- 11	-		
opposed 154:20	outset 499:17	130:10 132:6	211:4 212:4,15
178:21,23	outside 21:17	134:11,12	212:18 215:13
227:24	42:2 71:11	135:1 136:9,21	221:1,18 222:5
oral 456:3	191:14 193:10	137:8 138:12	222:8,15,19,22
orally 23:3	263:1 267:11	139:9 140:3,5,7	223:8,9,16,16
order 147:13	305:16,21	140:9,13,22,24	224:10,20
255:1 332:7	306:4 310:17	141:8,16,18,24	225:1,3,9,20
360:11 390:14	311:6 328:20	142:14 143:6,8	227:15,19,20
392:18 534:10	406:19 514:3	143:16,20	229:13 230:5
organ 8:9	outstanding	144:1,10 145:7	230:20 234:15
organization	333:16	145:11,15,20	237:9,14 238:1
192:19,23	outward	147:6,9,12,23	242:5 243:5,18
193:4 211:18	265:23	147:24 148:12	244:2 245:14
267:13	ovarian 5:19	149:7,12,20	245:19 246:1
organizations	6:5,8,12,13,16	150:20 151:3	246:20 250:8
192:1	6:19,21 7:7,15	152:5 153:13	251:8 256:7
original 281:7	7:19,22 8:2,5	155:6,10,23	258:13,16
283:20 287:16	8:19,21 9:2,8	156:2,5,6,9,11	259:10 260:16
288:15 293:22	9:12 10:8,13,19	156:14,17,24	261:8 263:9,20
293:23 294:2,5	10:22 11:2 27:2	157:3,6,7,14,17	269:5,10
294:6,14,16,18	27:6,11 28:2	157:23 158:3,7	271:11 272:16
438:11 439:8	42:3 57:17	158:8,12,15,17	277:7,13,18,24
originally 49:3	63:22 65:20	158:20 159:1,3	278:3,11
osan 54:7 55:6	81:11 82:16	159:4,7,9,17	279:19 280:5
osan's 54:9	83:6 84:13	160:4 163:12	282:5 290:3,12
ottawa 411:8	85:12 87:4,5	167:23 170:1	290:24 291:15
ought 452:15	88:16 89:16,21	171:21 176:7	291:21 292:5,7
452:16 464:4	90:2,8 91:16,24	181:8,10 183:2	292:12 295:23
outcome	93:11,13 96:17	183:9,11,19	297:13 299:17
128:24 212:12	98:12 100:15	184:2 186:11	300:3 302:7
230:14 315:24	102:5,15	186:18,24	304:5,19,20,24
316:2 407:4	104:15 107:8	191:10 192:5	305:6,12,16
445:24 516:5	113:9 114:4,12	192:20,24	306:1,6,16,22
539:17	114:22 115:3	193:6,12	307:2 308:12
outlined 358:24	115:19,20	203:17 206:24	310:12,20
462:7	125:7,12 130:6	209:5 210:8	311:4,9 320:4

Document 33008-56 PageID: 211416

[ovarian - p5] Page 67

321:22,23	445:13 447:12	overall 93:13	446:16,18
323:11,17,24	454:12,22	112:16 129:6	474:11 500:18
324:10,13,23	461:7 465:23	130:9 132:4,5	p
324:24 325:2	475:16 479:22	145:6 149:4,4	p 12:1 153:20
325:10,19	480:8,19,22	181:6 184:11	312:4,15
326:1 327:11	481:9 483:22	186:5,10,23	313:11 362:23
328:20 329:18	486:14,16,21	230:17 261:7	363:17,21
331:21 334:7	487:11,19	280:2,7 281:21	364:7,10,14,19
335:23 337:1	488:5,13	287:19 288:18	364:23 366:7
337:22 338:12	489:10,13	290:12 300:17	371:12 375:2
342:18 343:2,4	490:1 503:10	314:23 324:11	p.m. 179:17,18
343:9 350:6	503:16,24	330:24 331:15	217:16 218:2
353:24 357:24	504:1,5,11,16	339:13 340:17	247:15,16
360:9,13,14,16	505:3,8,12	367:10,20	293:2,3 301:20
369:11,22	506:13,22	375:4 400:20	301:21 342:11
375:7,17	507:6 509:13	495:23	342:12 346:9
378:24 380:14	510:1,13	overestimate	346:10 349:14
381:7 382:2	511:16 517:3	476:5	349:15 355:9
383:17 384:1	526:2 529:14	overreport	355:10 391:6,7
384:17 387:12	531:14,15	174:6	417:6,7,21,22
389:13 390:7	536:2	ovulating 456:7	493:3,4 499:15
390:16,21,22	ovaries 115:24	ovulation 126:6	499:16 536:17
391:2,18,22,23	146:6 149:17	158:11 335:14	p1 10:3 421:13
392:5,11,16	184:21 219:16	358:2 456:11	426:10,11
394:4,8,13	227:9,13,21,24	462:6	500:10
396:4 400:9,22	228:3,12 322:2	ovulatory	p2 10:7 429:21
410:9 412:9	349:7 353:7,21	433:6 450:14	429:24 508:2
414:11,18,21	391:15,19,23	456:9	p3 10:12 432:19
415:3,19 416:9	391:24 392:10	own 46:13 47:6	432:21 510:19
418:19 419:12	392:13 419:9	51:20,22	p4 10:15 437:16
424:14 425:2	444:18 456:16	147:13 216:7	437:17,18,22
428:4,13 430:7	464:3	224:3 235:8	513:10 514:8
430:20 431:7	ovary 256:9	236:14,21	p5 10:18 443:23
431:18 432:18	392:5 416:14	358:10 359:19	454:7 514:24
433:10 434:21	419:10	359:19 422:15	515:2,14
438:12 441:16		425:6 438:11	,
	O 11 T		

[p6 - paragraph]

Page 68

p6 10:21 454:3	177:3 181:17	398:24 399:2	236:19,21
454:9,11 523:5	181:24 184:15	399:22 400:16	257:14 284:11
523:13	188:8 194:14	405:8 408:2,3	285:2,7 299:4,8
p7 11:1 467:12	195:7,12 196:3	409:14 422:14	334:6 353:1,5
467:14,17,19	200:23,23	438:6,18 445:6	355:1 367:21
p8 11:4 477:7,8	230:15 246:8	445:20 448:19	369:5,16
477:12	246:12 250:17	448:22,24	388:18 399:10
p9 11:9 482:21	252:13,13,14	449:8,9,23	400:15 404:10
530:18 533:19	253:2 257:19	455:18 458:14	411:1 447:22
pa 3:5 4:8	257:20 258:8	484:1,1,3 486:5	458:9 459:4
pace 277:2	260:20,21,22	498:3 501:13	460:14 494:22
package 341:5	260:23 268:12	508:20 510:22	504:8 513:11
page 5:2,9 10:2	268:24 269:18	519:13 523:18	516:19,22
49:7 61:5,13,23	269:22 270:9	524:10 531:10	517:2,21 519:8
63:15 76:18	270:23 273:6,8	537:3,5,7,9,11	519:13 520:10
81:6,22 82:13	273:9,21	537:13,15,17	520:13 521:6,9
83:23 85:17	278:11,12	537:19,21,23	521:17 532:12
86:18 92:24	282:11 285:10	pages 61:14	paper's 161:10
94:13,16 95:8	285:19 286:17	77:8 122:2	papers 15:15
96:5,6 99:5	297:8 318:16	172:6 252:16	43:6 80:7 121:2
100:12 103:18	321:2,11 323:5	278:17	148:6 155:18
103:21 104:11	326:5,8 330:15	paginated	331:23 439:13
106:10,14,15	335:19 336:19	484:2	518:7
108:16 112:18	337:14 338:22	paid 29:5,8	paragraph
112:19 116:8	339:4 342:6	40:14 55:11	83:23 84:4,22
116:21 117:11	343:24 348:3	316:12	85:18 86:20
117:22 122:2,4	348:23 349:1	pain 24:6 265:6	87:1,18 93:7
124:12 125:1	350:12 351:7	panel 253:4	95:12,15
126:17 129:20	351:11 357:6	papatonio 3:4	112:19 117:22
131:20,21	360:24 361:3	paper 87:23	126:19,20
135:8,21	362:9 363:5,8	94:17,19 104:9	129:4 132:18
139:23 153:6	364:16 365:14	121:2,6,10	134:4 142:13
155:3 162:4,7	369:4 371:3	169:15,16	143:5 153:8
163:19 164:12	374:6 379:21	170:19 171:2,8	174:23 175:4,6
167:19,21	385:7,14 387:4	171:11 180:24	175:13 177:9
171:14 174:4	395:3 397:14	197:4,7 236:16	182:4 184:17

[paragraph - patent]

Page 69

188:14 198:18 141:12 149:14 participants 415:23 427:17 231:1 232:8 167:7,13,16 128:20 287:3 434:15 442:15 246:10 250:1 175:16,22 participate 514:22 535:19 250:18,21 176:2 285:17 71:8 72:5 participating 179:12 186:4 258:8,21 259:2 285:23 289:7 237:22 512:3 194:13 255:16 259:17 260:12 428:17 492:11 participation 324:20 330:1 260:12,23 492:16,21 particle 478:6 357:24 370:6 281:20 321:1 528:5 533:23 particle 478:6 357:24 370:6 281:20 323:7,8 partity 447:5 350:13,24 434:22 435:1 330:17 336:22 pare 208:9 352:11,16 455:12 476:11 337:16 338:9 part 11:10,10 353:6 356:16 476:20 495:15 350:10,11,22 125:1 132:12 35:19 77:24 137:19,20 357:20 361:9 143:12,17 83:9 87:23 228:2 264:2,13 363:4,6 365:5 178:14 179:6 113:18 120:18 participate 374:16 375:12 186:4,7 196:20	rr . 8 . r	-		
246:10 250:1 175:16,22 participate 514:22 535:19 250:18,21 176:2 285:17 285:23 289:7 179:12 186:4 258:8,21 259:2 329:21 420:19 237:22 512:3 194:13 255:16 259:17 260:12 428:17 492:11 participation 324:20 330:1 260:12,23 492:16,21 36:10 253:10 331:23 354:24 273:17 274:3 499:7 526:15 particle 478:6 357:24 370:6 281:20 321:7 528:5 533:23 particles 387:24 414:8 30:17 336:22 337:16 338:9 39:17,21 45:4 433:24 434:22 435:1 339:5,8,20 39:17,21 45:4 423:13 444:18 505:12 524:12 340:1 343:19 361.7,21 45:4 423:13 444:18 505:12 524:12 350:10,11,22 125:1 132:12 23:19 77:24 137:19,20 352:20 36:19 143:12,17 13:18 120:18 13:19,20 357:15 387:4,6 230:23 232:21 141:4 144:17 partices 539:14 368:1 424:3 286:15 289:1 152:3,20,21 partices 539:14 408:5 438:18 286:15 289:1 <	188:14 198:18	141:12 149:14	participants	415:23 427:17
250:18,21 176:2 285:17 71:8 72:5 particularly 253:16 255:10 285:23 289:7 329:21 420:19 237:22 512:3 194:13 255:16 259:17 260:12 428:17 492:11 afcilo 253:10 324:20 330:1 260:12,23 492:16,21 participation 324:20 330:1 273:17 274:3 499:7 526:15 particle 478:6 357:24 370:6 281:20 321:1 528:5 533:23 particle 478:6 357:24 470:1 331:7 336:22 party 447:5 350:13,24 357:24 476:11 337:16 338:9 part 11:10,10 353:6 356:16 476:20 495:15 339:5,8,20 39:17,21 45:4 423:13 444:18 505:12 524:12 340:1 343:19 60:4 71:20 77:8 23:19 77:24 228:2 264:2,13 350:10,11,22 125:1 132:12 23:19 77:24 228:2 264:2,13 351:5 387:4,6 363:4,6 365:5 178:14 179:6 113:18 120:18 456:9 387:9 400:3,18 238:14 240:1 144:21 145:4 partice 539:14 408:5 438:18 286:15 289:1 152:3,20,21 passed 472:13 476:16 484:5,	231:1 232:8	167:7,13,16	128:20 287:3	434:15 442:15
253:16 255:10 285:23 289:7 participating 179:12 186:4 258:8,21 259:2 329:21 420:19 237:22 512:3 194:13 255:16 259:17 260:12 428:17 492:11 36:10 253:10 324:20 330:1 260:12,23 499:7 526:15 particle 478:6 357:24 370:6 281:20 321:1 528:5 533:23 particles 387:24 414:8 321:20 323:7,8 parity 447:5 350:13,24 434:22 435:1 330:17 336:22 pare 208:9 352:11,16 455:12 476:11 339:5,8,20 39:17,21 45:4 423:13 444:18 505:12 524:12 340:1 343:19 60:4 71:20 77:8 528:1 32:12 23:19 77:24 137:19,20 352:20 361:9 143:12,17 83:9 87:23 228:2 264:2,13 363:4, 6 365:5 178:14 179:6 113:18 120:18 456:9 387:9 400:3,18 238:14 240:1 144:21 145:4 parties 539:14 408:5 438:18 286:15 289:1 152:3,20,21 passed 472:13 476:16 484:5,7 355:13,17 145:23 147:12 passed 472:13 408:5 438:18 289:17 33:24	246:10 250:1	175:16,22	participate	514:22 535:19
258:8,21 259:2 329:21 420:19 237:22 512:3 194:13 255:16 259:17 260:12 428:17 492:11 324:20 330:1 324:20 330:1 260:12,23 492:16,21 36:10 253:10 331:23 354:2,4 273:17 274:3 499:7 526:15 particle 478:6 357:24 370:6 281:20 323:7,8 parity 447:5 350:13,24 387:24 414:8 330:17 336:22 parse 208:9 352:11,16 455:12 476:11 337:16 338:9 39:17,21 45:4 460:4 71:20 77:8 423:13 444:18 505:12 524:12 340:1 343:19 60:4 71:20 77:8 particular 23:19 77:24 particulates 350:10,11,22 125:1 132:12 23:19 77:24 137:19,20 352:20 36:19 143:12,17 83:9 87:23 228:2 264:2,13 363:4,6 365:5 178:14 179:6 113:18 120:18 137:19,20 387:19 400:3,18 238:14 240:1 144:21 145:4 particulates 408:5 438:18 286:15 289:1 152:3,20,21 partices 539:14 476:16 484:5,7 357:15 360:6 198:18 20:224 418:11,16 516:3	250:18,21	176:2 285:17	71:8 72:5	particularly
259:17 260:12 428:17 492:11 participation 324:20 330:1 260:12,23 492:16,21 36:10 253:10 331:23 354:2,4 273:17 274:3 499:7 526:15 particle 478:6 357:24 370:6 281:20 321:1 528:5 533:23 particles 387:24 414:8 330:17 336:22 337:16 338:9 350:13,24 434:22 435:1 339:5,8,20 39:17,21 45:4 423:13 444:18 505:12 524:12 340:1 343:19 60:4 71:20 77:8 particular 505:12 524:12 350:10,11,22 125:1 132:12 23:19 77:24 137:19,20 352:20 361:9 143:12,17 83:9 87:23 228:2 264:2,13 363:4,6 365:5 178:14 179:6 113:18 120:18 156:9 374:16 375:12 186:4,7 196:20 120:19 131:14 partices 539:14 387:9 400:3,18 238:14 240:1 144:21 145:4 partices 539:14 408:5 438:18 286:15 289:1 152:3,20,21 passed 472:13 476:16 484:5,7 335:7 360:6 198:18 20:24 418:11,16 516:3 361:3 392:20 209:13 212:12	253:16 255:10	285:23 289:7	participating	179:12 186:4
260:12,23 492:16,21 36:10 253:10 331:23 354:2,4 273:17 274:3 499:7 526:15 particle 478:6 357:24 370:6 281:20 321:1 528:5 533:23 particles 387:24 414:8 321:20 323:7,8 parity 447:5 350:13,24 434:22 435:1 330:17 336:22 parse 208:9 352:11,16 455:12 476:11 339:5,8,20 39:17,21 45:4 423:13 444:18 505:12 524:12 340:1 343:19 60:4 71:20 77:8 particular particular 350:10,11,22 125:1 132:12 23:19 77:24 137:19,20 352:20 361:9 143:12,17 83:9 87:23 228:2 264:2,13 363:4,6 365:5 178:14 179:6 113:18 120:18 456:9 374:16 375:12 186:4,7 196:20 120:19 131:14 partices 385:15 387:4,6 230:23 232:21 141:4 144:17 partices 387:9 400:3,18 238:14 240:1 144:21 145:4 partices 401:18,20 259:13,17 152:3,20,21 partices 476:16 484:5,7 335:7 349:6,18 160:1,23 178:8 383:3 390:18 <td>258:8,21 259:2</td> <td>329:21 420:19</td> <td>237:22 512:3</td> <td>194:13 255:16</td>	258:8,21 259:2	329:21 420:19	237:22 512:3	194:13 255:16
273:17 274:3 499:7 526:15 particle 478:6 357:24 370:6 281:20 321:1 528:5 533:23 particles 387:24 414:8 321:20 323:7,8 parity 447:5 350:13,24 434:22 435:1 330:17 336:22 parse 208:9 352:11,16 455:12 476:11 339:5,8,20 39:17,21 45:4 423:13 444:18 505:12 524:12 340:1 343:19 60:4 71:20 77:8 60:4 71:20 77:8 77:24 137:19,20 352:20 361:9 143:12,17 83:9 87:23 228:2 264:2,13 363:4,6 365:5 178:14 179:6 113:18 120:18 456:9 374:16 375:12 186:4,7 196:20 120:19 131:14 parties 539:14 385:15 387:4,6 230:23 232:21 141:4 144:17 parts 539:14 401:18,20 259:13,17 145:23 147:12 passed 472:13 408:5 438:18 286:15 289:1 152:3,20,21 past 22:7 476:16 484:5,7 335:7 349:6,18 160:1,23 178:8 383:3 390:18 501:20 510:23 357:15 360:6 198:18 202:24 418:11,16 516:3 <td< td=""><td>259:17 260:12</td><td>428:17 492:11</td><td>participation</td><td>324:20 330:1</td></td<>	259:17 260:12	428:17 492:11	participation	324:20 330:1
281:20 321:1 528:5 533:23 particles 387:24 414:8 321:20 323:7,8 parity 447:5 350:13,24 434:22 435:1 330:17 336:22 parse 208:9 352:11,16 455:12 476:11 337:16 338:9 part 11:10,10 353:6 356:16 476:20 495:15 339:5,8,20 39:17,21 45:4 423:13 444:18 505:12 524:12 340:1 343:19 60:4 71:20 77:8 particular particulates 350:10,11,22 125:1 132:12 23:19 77:24 137:19,20 352:20 361:9 143:12,17 83:9 87:23 228:2 264:2,13 363:4,6 365:5 178:14 179:6 113:18 120:18 456:9 374:16 375:12 186:4,7 196:20 120:19 131:14 partices 539:14 387:9 400:3,18 238:14 240:1 144:21 145:4 partices 224:5 401:18,20 259:13,17 145:23 147:12 passed 472:13 408:5 438:18 286:15 289:1 152:3,20,21 past 22:7 438:21 442:3 289:17 332:24 154:16 155:15 237:16 381:21 50:20 510:23	260:12,23	492:16,21	36:10 253:10	331:23 354:2,4
321:20 323:7,8 parity 447:5 350:13,24 434:22 435:1 330:17 336:22 parse 208:9 352:11,16 455:12 476:11 337:16 338:9 part 11:10,10 353:6 356:16 476:20 495:15 339:5,8,20 39:17,21 45:4 423:13 444:18 505:12 524:12 340:1 343:19 60:4 71:20 77:8 particular particulates 350:10,11,22 125:1 132:12 23:19 77:24 137:19,20 352:20 361:9 143:12,17 83:9 87:23 228:2 264:2,13 363:4,6 365:5 178:14 179:6 113:18 120:18 456:9 374:16 375:12 186:4,7 196:20 120:19 131:14 parties 539:14 385:15 387:4,6 230:23 232:21 141:4 144:17 parts 221:15 387:9 400:3,18 238:14 240:1 144:21 145:4 parts 22:15 408:5 438:18 286:15 289:1 152:3,20,21 past 22:7 438:21 442:3 289:17 332:24 154:16 155:15 237:16 381:21 476:16 484:5,7 357:15 360:6 198:18 202:24 418:11,16 516:3 361:3 392:20 209:13 212:12	273:17 274:3	499:7 526:15	particle 478:6	357:24 370:6
330:17 336:22 parse 208:9 352:11,16 455:12 476:11 337:16 338:9 part 11:10,10 353:6 356:16 476:20 495:15 339:55,8,20 39:17,21 45:4 423:13 444:18 505:12 524:12 340:1 343:19 60:4 71:20 77:8 particular particulates 350:10,11,22 125:1 132:12 23:19 77:24 137:19,20 352:20 361:9 143:12,17 83:9 87:23 228:2 264:2,13 363:4,6 365:5 178:14 179:6 113:18 120:18 456:9 374:16 375:12 186:4,7 196:20 120:19 131:14 parties 539:14 385:15 387:4,6 230:23 232:21 141:4 144:17 parties 539:14 387:9 400:3,18 238:14 240:1 144:21 145:4 224:5 401:18,20 259:13,17 145:23 147:12 passed 472:13 438:21 442:3 289:17 332:24 154:16 155:15 237:16 381:21 476:16 484:5,7 335:7 349:6,18 160:1,23 178:8 383:3 390:18 501:20 510:23 357:15 360:6 198:18 202:24 418:11,16 516:3 361:3 392:20 209:13 21:12	281:20 321:1	528:5 533:23	particles	387:24 414:8
337:16 338:9 part 11:10,10 353:6 356:16 476:20 495:15 339:5,8,20 39:17,21 45:4 423:13 444:18 505:12 524:12 340:1 343:19 60:4 71:20 77:8 particular particulates 350:10,11,22 125:1 132:12 23:19 77:24 137:19,20 352:20 361:9 143:12,17 83:9 87:23 228:2 264:2,13 363:4,6 365:5 178:14 179:6 113:18 120:18 456:9 374:16 375:12 186:4,7 196:20 120:19 131:14 parties 539:14 385:15 387:4,6 230:23 232:21 141:4 144:17 parties 539:14 387:9 400:3,18 238:14 240:1 144:21 145:4 224:5 401:18,20 259:13,17 145:23 147:12 passed 472:13 438:21 442:3 289:17 332:24 154:16 155:15 237:16 381:21 476:16 484:5,7 335:7 349:6,18 160:1,23 178:8 383:3 390:18 501:20 510:23 357:15 360:6 198:18 202:24 418:11,16 516:3 361:3 392:20 209:13 21:12 371:13 paragraphs 393:2,13,18 230:14 233:19<	321:20 323:7,8	parity 447:5	350:13,24	434:22 435:1
339:5,8,20 39:17,21 45:4 423:13 444:18 505:12 524:12 340:1 343:19 60:4 71:20 77:8 particular 23:19 77:24 137:19,20 350:10,11,22 125:1 132:12 23:19 77:24 137:19,20 352:20 361:9 143:12,17 83:9 87:23 228:2 264:2,13 363:4,6 365:5 178:14 179:6 113:18 120:18 456:9 374:16 375:12 186:4,7 196:20 120:19 131:14 parties 539:14 385:15 387:4,6 230:23 232:21 141:4 144:17 parts 221:15 387:9 400:3,18 238:14 240:1 144:21 145:4 parts 22:15 408:5 438:18 286:15 289:1 152:3,20,21 passed 472:13 438:21 442:3 289:17 332:24 154:16 155:15 237:16 381:21 476:16 484:5,7 335:7 349:6,18 160:1,23 178:8 383:3 390:18 501:20 510:23 357:15 360:6 198:18 202:24 418:11,16 516:3 361:3 392:20 209:13 212:12 patency 185:23 520:13 523:10 235:4 238:5,18 patent 184:22 321:13 394:2 395:10 235:4 238:5,18 patent 184:22 353:12,19 71:17 533:8 <	330:17 336:22	parse 208:9	352:11,16	455:12 476:11
340:1 343:19 60:4 71:20 77:8 particular particulates 350:10,11,22 125:1 132:12 23:19 77:24 137:19,20 352:20 361:9 143:12,17 83:9 87:23 228:2 264:2,13 363:4,6 365:5 178:14 179:6 113:18 120:18 456:9 374:16 375:12 186:4,7 196:20 120:19 131:14 parties 539:14 385:15 387:4,6 230:23 232:21 141:4 144:17 parties 539:14 387:9 400:3,18 238:14 240:1 144:21 145:4 parts 221:15 401:18,20 259:13,17 145:23 147:12 passed 472:13 438:21 442:3 289:17 332:24 154:16 155:15 237:16 381:21 476:16 484:5,7 335:7 349:6,18 160:1,23 178:8 383:3 390:18 501:20 510:23 357:15 360:6 198:18 202:24 418:11,16 516:3 361:3 392:20 209:13 212:12 patency 185:23 paragraphs 393:2,13,18 230:14 233:19 371:13 231:13 394:2 395:10 235:4 238:5,18 patent 184:22 parfitt 3:15 520:13 523:21 305:22 306:16	337:16 338:9	part 11:10,10	353:6 356:16	476:20 495:15
350:10,11,22 125:1 132:12 23:19 77:24 137:19,20 352:20 361:9 143:12,17 83:9 87:23 228:2 264:2,13 363:4,6 365:5 178:14 179:6 113:18 120:18 456:9 374:16 375:12 186:4,7 196:20 120:19 131:14 parties 539:14 385:15 387:4,6 230:23 232:21 141:4 144:17 parts 221:15 387:9 400:3,18 238:14 240:1 144:21 145:4 parts 221:15 401:18,20 259:13,17 145:23 147:12 passed 472:13 438:21 442:3 289:17 332:24 152:3,20,21 past 22:7 438:21 442:3 289:17 332:24 154:16 155:15 237:16 381:21 476:16 484:5,7 335:7 349:6,18 160:1,23 178:8 383:3 390:18 501:20 510:23 357:15 360:6 198:18 202:24 418:11,16 516:3 361:3 392:20 209:13 212:12 patency 185:23 paragraphs 393:2,13,18 230:14 233:19 371:13 231:13 394:2 395:10 235:4 238:5,18 patent 184:22 324:5 326:3,3 205:16 444:2,3,5 450:9 290:24 304:1 369:17 370:15 53:12,19 71:17 533:8 <td>339:5,8,20</td> <td>39:17,21 45:4</td> <td>423:13 444:18</td> <td>505:12 524:12</td>	339:5,8,20	39:17,21 45:4	423:13 444:18	505:12 524:12
352:20 361:9 143:12,17 83:9 87:23 228:2 264:2,13 363:4,6 365:5 178:14 179:6 113:18 120:18 456:9 374:16 375:12 186:4,7 196:20 120:19 131:14 parties 539:14 385:15 387:4,6 230:23 232:21 141:4 144:17 parts 221:15 387:9 400:3,18 238:14 240:1 144:21 145:4 parts 221:15 401:18,20 259:13,17 145:23 147:12 passed 472:13 408:5 438:18 286:15 289:1 152:3,20,21 past 22:7 438:21 442:3 289:17 332:24 154:16 155:15 237:16 381:21 476:16 484:5,7 335:7 349:6,18 160:1,23 178:8 383:3 390:18 501:20 510:23 357:15 360:6 198:18 202:24 418:11,16 516:3 361:3 392:20 209:13 212:12 patency 185:23 paragraphs 393:2,13,18 230:14 233:19 371:13 231:13 394:2 395:10 235:4 238:5,18 patent 184:22 parameters 404:9 411:1,3 278:7 285:14 324:5 326:3,3 205:16 444:2,3,5 450:9 290:24 304:1 369:17 370:15 53:12,19 71:17 533:8 310:5 341:1 </td <td>340:1 343:19</td> <td>60:4 71:20 77:8</td> <td>particular</td> <td>particulates</td>	340:1 343:19	60:4 71:20 77:8	particular	particulates
363:4,6 365:5 178:14 179:6 113:18 120:18 456:9 374:16 375:12 186:4,7 196:20 120:19 131:14 parties 539:14 385:15 387:4,6 230:23 232:21 141:4 144:17 parts 221:15 387:9 400:3,18 238:14 240:1 144:21 145:4 parts 221:15 401:18,20 259:13,17 145:23 147:12 passed 472:13 408:5 438:18 286:15 289:1 152:3,20,21 past 22:7 438:21 442:3 289:17 332:24 154:16 155:15 237:16 381:21 476:16 484:5,7 335:7 349:6,18 160:1,23 178:8 383:3 390:18 501:20 510:23 357:15 360:6 198:18 202:24 418:11,16 516:3 361:3 392:20 209:13 212:12 patency 185:23 39aragraphs 393:2,13,18 230:14 233:19 371:13 231:13 394:2 395:10 235:4 238:5,18 patent 184:22 325:16 444:2,3,5 450:9 290:24 304:1 369:17 370:15 35:12,19 71:17 533:8 310:5 341:1 371:6,9,20,20 72:2 76:9 77:1 36:5 94:14 369:16 402:2 374:24 378:1	350:10,11,22	125:1 132:12	23:19 77:24	137:19,20
374:16 375:12 186:4,7 196:20 120:19 131:14 parties 539:14 385:15 387:4,6 230:23 232:21 141:4 144:17 parts 221:15 387:9 400:3,18 238:14 240:1 144:21 145:4 224:5 401:18,20 259:13,17 145:23 147:12 passed 472:13 408:5 438:18 286:15 289:1 152:3,20,21 past 22:7 438:21 442:3 289:17 332:24 154:16 155:15 237:16 381:21 476:16 484:5,7 335:7 349:6,18 160:1,23 178:8 383:3 390:18 501:20 510:23 357:15 360:6 198:18 202:24 418:11,16 516:3 361:3 392:20 209:13 212:12 patency 185:23 paragraphs 393:2,13,18 230:14 233:19 371:13 231:13 394:2 395:10 235:4 238:5,18 patent 184:22 parameters 404:9 411:1,3 278:7 285:14 324:5 326:3,3 205:16 444:2,3,5 450:9 290:24 304:1 369:17 370:15 parfitt 3:15 520:13 523:21 305:22 306:16 370:22,23 53:12,19 71:17 533:8 310:5 341:1 371:6,9,20,20 72:2 76:9 77:1 participant 360:19 369:1	352:20 361:9	143:12,17	83:9 87:23	228:2 264:2,13
385:15 387:4,6 230:23 232:21 141:4 144:17 parts 221:15 387:9 400:3,18 238:14 240:1 144:21 145:4 224:5 401:18,20 259:13,17 145:23 147:12 passed 472:13 408:5 438:18 286:15 289:1 152:3,20,21 past 22:7 438:21 442:3 289:17 332:24 154:16 155:15 237:16 381:21 476:16 484:5,7 335:7 349:6,18 160:1,23 178:8 383:3 390:18 501:20 510:23 357:15 360:6 198:18 202:24 418:11,16 516:3 361:3 392:20 209:13 212:12 patency 185:23 paragraphs 393:2,13,18 230:14 233:19 371:13 231:13 394:2 395:10 235:4 238:5,18 patent 184:22 parameters 404:9 411:1,3 278:7 285:14 324:5 326:3,3 205:16 444:2,3,5 450:9 290:24 304:1 369:17 370:15 parfitt 3:15 520:13 523:21 305:22 306:16 370:22,23 53:12,19 71:17 533:8 310:5 341:1 371:6,9,20,20 72:2 76:9 77:1 participant 369:16 402:2 374:24 378:1	363:4,6 365:5	178:14 179:6	113:18 120:18	456:9
387:9 400:3,18 238:14 240:1 144:21 145:4 224:5 401:18,20 259:13,17 145:23 147:12 passed 472:13 408:5 438:18 286:15 289:1 152:3,20,21 past 22:7 438:21 442:3 289:17 332:24 154:16 155:15 237:16 381:21 476:16 484:5,7 335:7 349:6,18 160:1,23 178:8 383:3 390:18 501:20 510:23 357:15 360:6 198:18 202:24 418:11,16 516:3 361:3 392:20 209:13 212:12 patency 185:23 paragraphs 393:2,13,18 230:14 233:19 371:13 231:13 394:2 395:10 235:4 238:5,18 patent 184:22 parameters 404:9 411:1,3 278:7 285:14 324:5 326:3,3 205:16 444:2,3,5 450:9 290:24 304:1 369:17 370:15 parfitt 3:15 520:13 523:21 305:22 306:16 370:22,23 53:12,19 71:17 533:8 310:5 341:1 371:6,9,20,20 72:2 76:9 77:1 participant 360:19 369:15 372:1,5,6 373:9 100:8 136:10 36:5 94:14 369:16 402:2 374:24 378:1	374:16 375:12	186:4,7 196:20	120:19 131:14	parties 539:14
401:18,20 259:13,17 145:23 147:12 passed 472:13 408:5 438:18 286:15 289:1 152:3,20,21 past 22:7 438:21 442:3 289:17 332:24 154:16 155:15 237:16 381:21 476:16 484:5,7 335:7 349:6,18 160:1,23 178:8 383:3 390:18 501:20 510:23 357:15 360:6 198:18 202:24 418:11,16 516:3 361:3 392:20 209:13 212:12 patency 185:23 paragraphs 393:2,13,18 230:14 233:19 371:13 231:13 394:2 395:10 235:4 238:5,18 patent 184:22 parameters 404:9 411:1,3 278:7 285:14 324:5 326:3,3 205:16 444:2,3,5 450:9 290:24 304:1 369:17 370:15 parfitt 3:15 520:13 523:21 305:22 306:16 370:22,23 53:12,19 71:17 533:8 310:5 341:1 371:6,9,20,20 72:2 76:9 77:1 participant 360:19 369:15 372:1,5,6 373:9 100:8 136:10 36:5 94:14 369:16 402:2 374:24 378:1	385:15 387:4,6	230:23 232:21	141:4 144:17	parts 221:15
408:5 438:18 286:15 289:1 152:3,20,21 past 22:7 438:21 442:3 289:17 332:24 154:16 155:15 237:16 381:21 476:16 484:5,7 335:7 349:6,18 160:1,23 178:8 383:3 390:18 501:20 510:23 357:15 360:6 198:18 202:24 418:11,16 516:3 361:3 392:20 209:13 212:12 patency 185:23 paragraphs 393:2,13,18 230:14 233:19 371:13 231:13 394:2 395:10 235:4 238:5,18 patent 184:22 parameters 404:9 411:1,3 278:7 285:14 324:5 326:3,3 205:16 444:2,3,5 450:9 290:24 304:1 369:17 370:15 parfitt 3:15 520:13 523:21 305:22 306:16 370:22,23 53:12,19 71:17 533:8 310:5 341:1 371:6,9,20,20 72:2 76:9 77:1 participant 360:19 369:15 372:1,5,6 373:9 100:8 136:10 36:5 94:14 369:16 402:2 374:24 378:1	387:9 400:3,18	238:14 240:1	144:21 145:4	224:5
438:21 442:3 289:17 332:24 154:16 155:15 237:16 381:21 476:16 484:5,7 335:7 349:6,18 160:1,23 178:8 383:3 390:18 501:20 510:23 357:15 360:6 198:18 202:24 418:11,16 516:3 361:3 392:20 209:13 212:12 patency 185:23 paragraphs 393:2,13,18 230:14 233:19 371:13 231:13 394:2 395:10 235:4 238:5,18 patent 184:22 parameters 404:9 411:1,3 278:7 285:14 324:5 326:3,3 205:16 444:2,3,5 450:9 290:24 304:1 369:17 370:15 parfitt 3:15 520:13 523:21 305:22 306:16 370:22,23 53:12,19 71:17 533:8 310:5 341:1 371:6,9,20,20 72:2 76:9 77:1 participant 360:19 369:15 372:1,5,6 373:9 100:8 136:10 36:5 94:14 369:16 402:2 374:24 378:1	401:18,20	259:13,17	145:23 147:12	passed 472:13
476:16 484:5,7 335:7 349:6,18 160:1,23 178:8 383:3 390:18 501:20 510:23 357:15 360:6 198:18 202:24 418:11,16 516:3 361:3 392:20 209:13 212:12 patency 185:23 paragraphs 393:2,13,18 230:14 233:19 371:13 231:13 394:2 395:10 235:4 238:5,18 patent 184:22 parameters 404:9 411:1,3 278:7 285:14 324:5 326:3,3 205:16 444:2,3,5 450:9 290:24 304:1 369:17 370:15 parfitt 3:15 520:13 523:21 305:22 306:16 370:22,23 53:12,19 71:17 533:8 310:5 341:1 371:6,9,20,20 72:2 76:9 77:1 participant 360:19 369:15 372:1,5,6 373:9 100:8 136:10 36:5 94:14 369:16 402:2 374:24 378:1	408:5 438:18	286:15 289:1	152:3,20,21	past 22:7
501:20 510:23 357:15 360:6 198:18 202:24 418:11,16 516:3 361:3 392:20 209:13 212:12 patency 185:23 paragraphs 393:2,13,18 230:14 233:19 371:13 231:13 394:2 395:10 235:4 238:5,18 patent 184:22 parameters 404:9 411:1,3 278:7 285:14 324:5 326:3,3 205:16 444:2,3,5 450:9 290:24 304:1 369:17 370:15 parfitt 3:15 520:13 523:21 305:22 306:16 370:22,23 53:12,19 71:17 533:8 310:5 341:1 371:6,9,20,20 72:2 76:9 77:1 participant 360:19 369:15 372:1,5,6 373:9 100:8 136:10 36:5 94:14 369:16 402:2 374:24 378:1	438:21 442:3		154:16 155:15	237:16 381:21
516:3 361:3 392:20 209:13 212:12 patency 185:23 paragraphs 393:2,13,18 230:14 233:19 371:13 231:13 394:2 395:10 235:4 238:5,18 patent 184:22 parameters 404:9 411:1,3 278:7 285:14 324:5 326:3,3 205:16 444:2,3,5 450:9 290:24 304:1 369:17 370:15 parfitt 3:15 520:13 523:21 305:22 306:16 370:22,23 53:12,19 71:17 533:8 310:5 341:1 371:6,9,20,20 72:2 76:9 77:1 participant 360:19 369:15 372:1,5,6 373:9 100:8 136:10 36:5 94:14 369:16 402:2 374:24 378:1	476:16 484:5,7	335:7 349:6,18	160:1,23 178:8	383:3 390:18
paragraphs 393:2,13,18 230:14 233:19 371:13 231:13 394:2 395:10 235:4 238:5,18 patent 184:22 parameters 404:9 411:1,3 278:7 285:14 324:5 326:3,3 205:16 444:2,3,5 450:9 290:24 304:1 369:17 370:15 parfitt 3:15 520:13 523:21 305:22 306:16 370:22,23 53:12,19 71:17 533:8 310:5 341:1 371:6,9,20,20 72:2 76:9 77:1 participant 360:19 369:15 372:1,5,6 373:9 100:8 136:10 36:5 94:14 369:16 402:2 374:24 378:1	501:20 510:23	357:15 360:6	198:18 202:24	418:11,16
231:13 394:2 395:10 235:4 238:5,18 patent 184:22 parameters 404:9 411:1,3 278:7 285:14 324:5 326:3,3 205:16 444:2,3,5 450:9 290:24 304:1 369:17 370:15 parfitt 3:15 520:13 523:21 305:22 306:16 370:22,23 53:12,19 71:17 533:8 310:5 341:1 371:6,9,20,20 72:2 76:9 77:1 participant 360:19 369:15 372:1,5,6 373:9 100:8 136:10 36:5 94:14 369:16 402:2 374:24 378:1	516:3	361:3 392:20	209:13 212:12	patency 185:23
parameters 404:9 411:1,3 278:7 285:14 324:5 326:3,3 205:16 444:2,3,5 450:9 290:24 304:1 369:17 370:15 parfitt 3:15 520:13 523:21 305:22 306:16 370:22,23 53:12,19 71:17 533:8 310:5 341:1 371:6,9,20,20 72:2 76:9 77:1 participant 360:19 369:15 372:1,5,6 373:9 100:8 136:10 36:5 94:14 369:16 402:2 374:24 378:1	paragraphs	393:2,13,18	230:14 233:19	371:13
205:16 444:2,3,5 450:9 290:24 304:1 369:17 370:15 parfitt 3:15 520:13 523:21 305:22 306:16 370:22,23 53:12,19 71:17 533:8 310:5 341:1 371:6,9,20,20 72:2 76:9 77:1 participant 360:19 369:15 372:1,5,6 373:9 100:8 136:10 36:5 94:14 369:16 402:2 374:24 378:1	231:13	394:2 395:10	235:4 238:5,18	patent 184:22
parfitt 3:15 520:13 523:21 305:22 306:16 370:22,23 53:12,19 71:17 533:8 310:5 341:1 371:6,9,20,20 72:2 76:9 77:1 participant 360:19 369:15 372:1,5,6 373:9 100:8 136:10 36:5 94:14 369:16 402:2 374:24 378:1	parameters	404:9 411:1,3	278:7 285:14	324:5 326:3,3
53:12,19 71:17 533:8 310:5 341:1 371:6,9,20,20 72:2 76:9 77:1 participant 360:19 369:15 372:1,5,6 373:9 100:8 136:10 36:5 94:14 369:16 402:2 374:24 378:1		444:2,3,5 450:9	290:24 304:1	369:17 370:15
72:2 76:9 77:1 participant 360:19 369:15 372:1,5,6 373:9 100:8 136:10 36:5 94:14 369:16 402:2 374:24 378:1	_			370:22,23
100:8 136:10 36:5 94:14 369:16 402:2 374:24 378:1	·			
	72:2 76:9 77:1	participant	360:19 369:15	372:1,5,6 373:9
136:24 138:4 404:24 415:8 378:10 411:21		36:5 94:14		
	136:24 138:4		404:24 415:8	378:10 411:21

[patent - period]

Page 70

[patent period]			i age 70
412:11,16	pdq 7:9,11	penalty 538:1,4	performed
413:7,10,17	268:14 269:5	pending 32:12	109:5 466:23
414:3,7 433:10	269:16,19,22	63:10,13	468:10
433:18 455:12	270:4,16 271:2	175:13 176:14	perineal 6:15
473:13 476:12	271:8,14,17,24	213:4 265:2	7:14,21 9:7,11
path 360:20	272:12 275:21	302:2	10:9,12,18
pathogenesis	276:14 277:6,7	penninkilampi	140:2 152:23
131:13	277:16,23	238:6	251:8 278:17
pathogenic	278:3 282:15	pennsylvania	279:1,18 290:2
135:23 139:11	282:21 283:6	520:15	290:24 291:15
357:10 360:19	284:7 287:13	pensacola 3:8	291:20 292:11
pathological	288:4,6,10	people 51:9	329:17 337:2
138:24	289:17,21	56:14 95:13,20	337:17 353:18
pathologist	290:19 291:12	130:22 139:5	356:14 375:17
444:23	292:1,11	196:11 289:13	400:8 415:6
patient 304:23	293:18 493:10	300:22 428:14	423:3 430:8
307:1 352:11	pdqs 269:9	436:21 438:23	432:17 438:12
352:12 496:3	pearson 69:11	450:13 465:11	453:16 506:14
patient's 65:1	peer 40:19,22	470:5	506:19,20
159:16 305:12	41:10 57:22	percent 24:11	509:11
305:15,22	82:1,21,24	25:9,10,11,12	perineally
306:16	192:6,15 204:9	26:17,23 90:8	432:4 456:15
patients 191:10	204:11 206:20	90:16,18,19	perineum 8:9
268:5 292:2,4	244:15 245:10	104:15 107:8	264:3 431:19
307:18 346:15	248:14 271:10	141:17,24	505:24
350:12,16	272:15 435:7	142:10 188:2	period 59:24
352:11,17	440:22 459:3	260:8 280:16	65:16,18 66:15
356:14,17	460:9,9 463:5	312:9 313:6	86:7 129:2
378:11 455:21	479:10 491:7	348:18,20,20	150:6 152:22
patricia 13:8,9	513:23 515:8	378:23 388:4	153:12,17
pattern 131:23	521:2	389:9,12 390:7	154:10,13,13
334:13	peers 218:22	390:16,20	154:14,16
payments	310:19 311:10	percentage	168:2 169:4
196:23	pelvic 8:9 356:6	24:9 25:7 26:15	299:1 383:19
pcpc 239:6	356:13,18	26:18,21	390:13
		226:19,22	

[periods - plausibility]

Page 71

periods 126:3	261:21 262:9	picking 274:15	380:13 382:9
151:13 188:24	525:11 533:10	274:16 281:14	384:16 392:24
189:13 338:4	petitions 7:5	339:21	393:12 417:14
407:3 433:18	248:24 250:2,6	picture 418:7	454:18 469:14
450:15 456:3	251:2,3,5,12,14	418:13	471:1 491:11
506:2	253:20 256:15	piece 359:2	500:20 513:13
peritoneal 7:8	261:18 262:1	pitting 318:22	513:16 515:10
264:4 271:11	ph.d. 5:16	318:24	516:11 519:9
272:16	pharmaceutical	place 67:21	519:17 524:12
perjury 538:1,5	35:1,6	97:11 234:14	529:21 531:2
permitted	pharmacology	240:24 389:1	plan 411:3
124:9	5:22 436:6	539:10	plane 523:9
persisted 447:4	444:7	places 200:9	526:10
person 48:9,17	phd 1:13 2:12	295:2	planning
50:22 51:13	5:2 12:3 218:3	plaintiff 40:8	176:23
52:6,16,24	538:19	515:17	plausibility
53:18 160:2,10	phenomena	plaintiff's 5:13	33:12 134:19
173:3 175:21	314:10	10:1 58:4 61:2	135:10,14
317:12 378:13	philadelphia	421:6 426:11	138:2,7,18
452:5,10	4:8	506:9	207:17 222:1,3
personal 16:17	phone 51:13	plaintiffs 3:3	224:19,24
86:2	52:6 58:16	3:13 4:3 17:15	225:20 227:6
personally 69:3	299:16	19:5,19 22:4,11	227:18 228:8
69:23 396:20	phrase 149:23	38:24 40:3	228:13 229:18
perspectives	154:9,11,15	43:15 67:24	235:2 255:2
5:24 6:2 10:16	155:5,9 187:17	68:15 69:1 70:7	318:5 349:3
persuasive	264:9	72:16 73:9 74:6	350:6 353:23
473:3	phraseology	75:7,15 89:17	357:2,5 416:15
pertain 212:14	264:11	90:4 95:2 180:9	416:20 422:16
338:2	physician	191:14 193:11	424:14 428:12
pertaining	268:13 305:1	193:17 204:19	429:7 445:13
438:11	307:18	205:2 208:13	459:15 464:2
pertinent	pi 265:4,6	208:14 219:24	468:1,2 479:9
277:17	picked 132:15	237:20,21	490:22 524:8
petition 244:7	133:2	252:9 269:3,7	532:23
249:22 254:6		269:14 329:8	
•	•	•	•

[plausible - possibility]

Page 72

[plausible possibli	10 <i>y</i>]		1 480 72
plausible 108:8	246:8 251:21	pleased 436:14	369:8 425:6
136:1 137:23	252:12 257:17	436:15	475:7
139:13 153:11	260:20 270:23	plenty 216:16	pooling 404:24
177:23 207:13	274:3 275:7	282:9	poor 84:10 85:9
225:8,9,12	286:17 297:8	plm 241:19	282:6 434:20
264:10,12	302:4 321:1	plus 498:19	poorly 478:6
357:11,23	323:3 329:11	point 22:5	popularly
360:12 419:8	334:21 335:18	72:14 120:1	366:12
419:11,16	337:13 338:6	131:7 153:22	population
456:14 462:8	338:22 339:4	154:3 164:3,5	211:6 306:2
479:2 487:18	342:6 343:15	176:21 187:8	326:21 327:21
488:3,13,14	348:23 351:6	210:16 235:21	328:16,18,21
plausibly 108:8	352:3 353:14	253:22 254:10	328:24 329:3
422:21	358:12 360:24	256:4 299:17	330:2 348:22
play 137:3	361:24 363:1	302:12 303:4	496:3
166:11 341:7	364:15 365:13	303:16 312:8	posed 483:18
please 12:13	366:3 369:4	313:5,9 318:21	posing 231:21
20:10 27:7	371:2 374:6	338:23 355:23	position 306:19
32:19 49:13	376:11,11,14	381:13 389:17	306:23 385:1
52:8 61:5,13	377:14 380:23	393:5 401:7	533:7
85:3,17 86:18	385:5,14 387:3	413:23 414:23	positive 33:22
92:24 94:16	387:5 397:4	435:6 452:2	101:6,12,13
106:24 109:10	399:17,23	478:22	147:5 168:9
110:3 111:5	400:15 405:8	pointed 229:6	182:9 187:20
116:3 126:14	408:2 409:14	346:14 370:3	258:15 259:4
126:17 127:22	413:2 421:11	pointing 271:5	259:10 347:15
129:3,20 131:3	438:15 455:19	policies 21:17	425:1 443:5
131:20 133:15	458:15 468:22	22:20	502:2
134:1,3 153:3	501:13 506:9	policy 21:23	possibilities
162:4 163:19	510:5,18,22	363:15	139:12 456:8
167:19 171:14	513:10 515:14	polycystic	possibility
174:4 177:2	515:15,22	157:6 158:7	182:7 414:6,13
181:24 188:8	521:5 523:5	pooled 8:5	414:16 431:17
195:7 214:7	524:10 525:23	237:19 280:5	441:15 488:4
216:24 224:21	533:2	327:13,19,24	511:6
225:15 230:15		341:17 342:3	
		•	

[possible - preparation]

Page 73

rr r r			\mathcal{E}
possible 85:24	456:7 458:12	219:7 220:17	507:5,6,19
86:11,12 130:5	458:22 463:16	226:5,10,22	508:13 511:22
137:2 151:6	464:2,3 485:12	227:9 229:12	power 403:11
163:11 169:17	503:14,20	230:20 239:23	practice 311:23
174:15 228:16	524:22	244:1 250:7	320:15 427:12
246:17 318:2	potentially 57:3	254:24 263:20	504:21
336:4,13	58:1 185:7	277:18 299:18	practices 1:7
338:21 347:14	233:15 258:12	300:2 302:7	pre 163:13
400:9,21 425:1	423:15 434:21	306:17 307:19	164:3
442:6,8 511:2	445:7	309:4 334:6,15	preamble
possibly 51:7	powder 1:6 6:7	335:1 337:3,3	180:19
88:17 127:21	6:11 7:14 8:1,4	338:13 342:18	precautionary
130:21 183:15	8:17,20 9:2,7	343:9 344:7	436:23
316:5 378:6,23	9:12 27:2,6,11	346:23 348:4	preceded
407:21 504:24	28:1 35:23	353:7,22,23	113:17 130:14
post 163:13	36:15,18 42:3	369:11,21	130:20
164:5	57:17 58:6,9,13	375:6,17	precision
postulating	58:24 65:21	380:14 382:10	366:23 402:1,3
174:20	68:16 70:7,23	382:12 384:17	preclude 188:3
potential 85:23	71:3,21 81:9,9	389:14 390:9	414:8
112:9,13 113:7	114:4,22 140:9	390:23 400:9	predicated
113:14,20	140:16 141:10	410:9 412:4	150:5
114:3,9,17,20	141:21 146:1	414:11 416:10	predictors
137:20 148:7	146:21 147:1	431:19 453:9	148:8
158:14 168:13	148:14 149:6	453:17 504:10	pregnancy
170:16 174:20	149:19,21,24	506:20 507:2	28:23 29:2,23
182:9 184:20	150:10 151:2	507:10,11,14	31:16 33:1,9,23
206:7 264:2,7	151:21 167:23	507:18,23	34:20 456:3
316:4,15 318:5	168:2,5 196:12	508:12,12,16	462:7
319:14 332:8	197:18 198:11	509:11,15,17	pregnant 28:4
338:14,17	198:12 201:8	509:18,22,23	prep 54:1
339:2,2 378:22	203:17,23	510:1,9,15	preparation
389:18 396:16	204:20 205:3	525:20 526:3	51:16,17 52:2,5
407:1 428:4	209:11,14,17	powders 6:23	53:22 54:24
434:4 436:17	209:20,23	81:18 246:18	94:22 99:2
441:17 447:21	210:2 212:3,14	337:18 430:22	447:16,19

[preparation - proceeding]

Page 74

477:20	343:10 438:23	previous 182:9	180:10 182:7
prepare 16:5,8	438:24 443:14	220:2 336:1	185:19 238:1
16:10 22:14	presentations	360:4 400:5	252:6,8 269:2
62:15 73:16,23	311:3 342:17	415:4 503:13	329:7 356:14
75:21 235:16	452:14	previously	358:23 383:4
prepared 48:11	presented	15:14 218:5	392:12 393:20
55:14 63:19	91:23 97:18	342:16 404:14	413:8 414:2
74:7 107:23	251:6 438:10	432:13 475:2	416:6 450:13
212:21 244:10	439:8 440:6	499:23 535:5	462:7 504:19
321:13 470:17	444:3,5 451:15	primarily	private 411:15
471:1,8,11	483:17	435:22 459:11	privilege 64:17
520:14	presenters	459:14 463:12	probability
preparing 57:7	96:15	primary 7:8	95:22
73:19 79:2,10	presenting	171:24 236:8	probably 14:17
79:20 89:8	383:14	265:14 271:11	21:7 26:1 29:19
219:18 221:13	preserved 63:8	272:16 333:10	45:6,14 60:11
228:24 237:8	preserving	333:12 380:1	93:11 196:17
237:13 238:2	73:19	503:12	339:1 355:24
269:23 277:18	president	principal	367:24 368:1
298:14 360:6	363:11 430:14	143:14	398:16 415:13
534:15	president's	principally	492:7 506:1
preponderance	8:14 361:18	172:1	problem
115:17 321:12	press 28:9	principles	148:10 219:10
322:20	pretty 302:13	363:24	244:12 319:3
presence 392:4	436:20	print 94:24	422:4 449:15
present 121:22	prevalence	printed 21:3	449:17 504:24
150:18,20	390:2	printout 245:18	problems 428:4
160:1 183:17	prevalent 10:5	246:14	procedures
226:18 315:22	422:9 500:11	prior 12:23	205:13 356:19
320:1 331:10	prevent 391:1	26:11 29:20	364:24
385:18 399:15	preventing	38:23 56:21	proceed 112:23
400:6 443:14	256:8	57:14,24 60:15	232:11
485:12	prevention 7:4	63:2 71:12 72:8	proceeding
presentation	7:9,11 265:7	73:14,16 89:10	26:13 27:23
310:17 311:7,8	271:12 272:17	90:3 95:2,4	92:16
311:9 342:20	275:22 276:15	128:24 168:3	

Golkow Technologies, A Veritext Division

[proceedings - public]

Page 75

proceedings	526:3 533:12	proportion	provided 20:1
92:8,11 514:3	products 1:6,8	93:12 227:2	42:8 44:15
515:6	7:15 81:9,15	389:18	45:17,18,20,23
process 15:1,3	147:19 205:3,4	proposal	46:18 47:5,11
37:23 38:9	226:14 227:2	329:12,14	47:13 74:6
39:18,22 50:17	250:16 263:20	proposed 231:4	76:13 213:7
78:14 79:10	432:3 453:9	360:22	214:14 216:6
89:2,4,7 138:1	466:16	prospective	236:15 239:2
208:2 227:11	profession 71:7	6:18 175:14	239:17 240:8
229:3 237:8,12	313:2	176:6 177:24	240:15 251:13
238:2,6,9,12	professional	178:7,10 261:6	251:18 286:2,5
244:13 256:20	7:10	280:22 281:6	287:4 392:23
269:23 310:8	professionally	283:19 288:13	393:11,17,22
317:19 320:8	68:7 69:24 70:1	293:21,24	411:11 441:22
358:3 360:21	70:4 80:9	294:10,11,12	442:9 463:15
390:15	professionals	387:14 502:4	491:11 501:4
processed	271:9 272:14	503:1	512:10 514:8
309:6	professor 18:23	protection	518:7 524:18
processes	23:14	480:3,15	524:22 530:6
137:24 205:13	prognosis	483:13 489:12	531:1,19
309:11 534:9	434:20	protective	535:13
processing	program 25:4	115:19 256:7	provides 271:9
309:12	progression	321:22	272:14
proctor 3:4	501:23	protocol 235:17	providing
produce 129:6	progressive	235:21	174:9 213:22
produced	111:10	prove 442:11	215:3 217:5
238:16,19,21	promote	443:8	408:9
240:1,18	150:20	provide 22:8	proving 475:15
469:17	promotions	28:3 59:12	prudence 95:21
product 34:23	25:2	216:20 272:13	psychotropic
35:6 205:15	proper 262:16	292:8 332:12	147:8,11
210:3 227:9	358:17 365:8	339:1 340:18	public 2:22
332:9 386:19	365:11 366:13	357:1 364:20	16:15 25:3,4
389:24 393:2	properly	427:21 460:24	31:3,15,18 82:8
507:24 509:4	363:22 366:8	500:20 522:15	98:4 167:9
525:18,21	504:6		191:1 218:18
L	1	1	

[public - question]

Page 76

-			C
261:13 265:24	82:21 83:6	purposes 16:11	317:19
343:6 391:3	85:14 88:4,7,15	41:15 57:11	quality 405:14
441:7,17	97:17,20 98:1	76:3 187:15	quantitative
442:13 533:7	120:13 167:10	222:6 227:5	170:6 317:20
539:4,21	167:14 179:22	245:4 251:23	364:22
publication	197:24 201:16	254:22 416:14	quantitatively
37:6,9,14,19	218:19 223:6	416:19	319:20
40:19,23 41:10	229:10 236:10	pursuant 2:20	quarters
57:21 82:2	239:5 246:11	21:22	486:11
83:11,20 94:3,8	246:13,16	put 25:23,24	quartile 348:18
97:6,21 102:23	273:19 306:10	64:18 93:23	queried 176:8
103:3 108:18	325:17 383:18	98:6 152:5	query 268:14
108:21 115:22	428:15,21	158:14 225:11	question 14:5,8
115:23 160:7	431:9,11 435:7	236:3 247:21	30:17 32:14,16
177:5 192:6	435:14 440:21	262:13 268:3	32:19 37:13
215:23 218:21	441:4 443:3	269:10 272:12	38:6,8 46:5
320:11 383:15	454:24 459:3	274:18 290:22	58:16 59:2
477:3 513:24	460:8,13 463:5	291:14 292:15	63:10,13,18,24
publications	479:10 504:7	300:22 317:9	64:14 89:22,24
43:3 80:12,16	513:23 520:11	389:6 395:2,6	90:11,20 100:5
82:15 89:19	531:12	415:22 439:15	105:15 109:20
145:5 154:19	publishing	446:24 470:2	109:22 111:5
212:3,6,8 220:2	306:13 381:5	499:3 505:11	114:1,13,14
220:24 229:15	425:14 465:21	507:8 523:3	115:10 118:12
230:9 481:8	pubmed 235:15	525:16 526:8	119:17 121:12
521:21,23	pull 46:13 59:5	534:2	123:9,15,16,22
publicize	59:9 123:8	puts 267:16	124:8 132:19
363:20	221:19 268:16	putting 39:7,11	138:15 143:3
publicized 28:9	397:7 496:17	41:15 262:15	145:18 146:16
publicly 15:15	pulled 269:17	268:8,9 474:9	150:8 151:18
31:2 97:24 98:5	purported	q	151:23 154:7
publish 267:9	231:3	qualified 262:9	170:9,12 179:4
287:1	purpose 153:16	262:12	180:22 183:19
published	157:2 271:3	qualitative	186:16 191:3
15:14 30:4 33:4	363:20 412:2	159:22 160:2	198:6 199:19
37:15 82:1,18		137.22 100.2	200:13 202:12
	Golkow Te	1 1 .	

[question - rcts]

Page 77

202:12,17,19 428:13 433:22 quickly 302:2 rate 17:18 49:6 203:2 210:23 435:10 450:3 304:2 482:14 49:11 178:22 178:23 214:8 215:1 453:1 485:23 508:9 178:23 224:2 226:7 505:14 507:8 quite 377:14 rates 223:21 224:2 226:7 505:14 507:8 quite 74:19 224:5,9 347:24 239:14 242:22 509:21 533:3 230:1 299:8 431:20 518:13 247:22,23 535:22,24 476:7 quote 257:16 105:15 167:24 247:22,23 535:22,24 476:7 quote 257:16 105:15 167:24 256:22 258:5 questions 13:23 362:14 105:15 167:24 267:23 271:16 133:24 15:5 46:5 119:11,15 7 233:9 295:7,18 299:13 299:14 133:2 157:10 133:2 157:10 133:2 157:10 142:2 447:13 448:1,5,9 299:16 304:5 371:10 373:2 399:15 457:3 371:10 373:2 399:15 457:3 371:10 373:2 399:15 457:3 469:14 182:8 332:4 </th <th>.400000000</th> <th></th> <th></th> <th>- ugo</th>	.400000000			- ugo
394:23 398:12	203:2 210:23 214:8 215:1 216:22,23 224:2 226:7 228:4 239:9,11 239:14 242:22 243:2,7,9 247:22,23 248:2 256:21 256:22 258:5 267:23 271:16 275:13,24 276:1 278:15 278:23 291:10 295:13 299:14 299:21 302:2 310:5 312:20 315:2 318:14 322:16 323:20 323:22 327:6 339:14 340:6 346:19 358:4 370:12 377:4,9 377:11,15,20 383:10 384:21 387:17 389:20	435:10 450:3 453:1 485:23 493:13 495:2 505:14 507:8 508:22 509:3 509:21 533:3 534:13 535:4 535:22,24 536:5 questioning 124:2 417:13 questions 13:23 13:24 15:5 46:5 119:11,15 133:2 157:10 175:3 210:11 216:18 274:6 418:9 419:19 426:21 427:1 428:1,5,9 433:23 454:17 457:22 464:24 467:7 469:11 469:13 471:13 473:10,11 480:5,9 487:15	304:2 482:14 508:9 quiet 377:14 quite 74:19 148:22 151:6 230:1 299:8 300:5 390:15 476:7 quote 257:16 362:14 quoting 257:13 r r 12:1 397:3 rafferty 3:4 raise 431:17 442:12 443:8 raised 49:5 96:14 182:8 332:4 ran 68:11 random 313:19 450:2 randomized 408:8 409:10 range 60:11	49:11 178:22 178:23 rates 223:21 224:5,9 347:24 rather 343:16 431:20 518:13 ratio 32:3,23 104:14 105:14 105:15 167:24 168:10 178:24 183:8 187:21 233:9 295:7,18 295:22 299:3 299:16 304:5 337:18 371:7 371:10 373:2 399:15 457:3 rationale 368:11 427:16 462:8 ratios 84:10 85:9,22 102:4 102:14 103:4,8 103:9,12 144:24 145:1 168:7 178:23
	322:16 323:20 323:22 327:6 339:14 340:6 346:19 358:4 370:12 377:4,9 377:11,15,20 383:10 384:21 387:17 389:20 390:4 394:20 394:23 398:12 398:21 401:13 403:4,6,16,19 407:14 412:2 412:21 413:2 413:14,23 415:15,17	426:21 427:1 428:1,5,9 433:23 454:17 457:22 464:24 467:7 469:11 469:13 471:13 473:10,11 480:5,9 487:15 488:1 499:12 499:14 512:19 512:21 530:17 534:24 quick 21:12 301:10 349:13 349:18 391:5	96:14 182:8 332:4 ran 68:11 random 313:19 450:2 randomized 408:8 409:10 range 60:11 102:23 177:21 317:24 450:21 ranked 237:1,2 rapporteur 438:4 rare 111:8 rarely 356:12	368:11 427:16 462:8 ratios 84:10 85:9,22 102:4 102:14 103:4,8 103:9,12 144:24 145:1 168:7 178:23 178:24 295:4 302:6 327:20 411:20 511:10 524:1 rats 219:13 rct 409:6,12 rcts 408:8

[reach - reasonably]

Page 78

	_		0
reach 227:9	223:19 224:7	444:23 461:4	realized 49:4
359:22 416:14	227:22 231:16	538:5,7	really 40:15
419:8 456:16	235:24 236:1	reader 375:22	56:18,18 73:22
536:9	237:8,13,15,17	381:23 382:8	133:12 148:9
reached 191:21	237:18,24	383:23	161:4 188:4
192:19 227:13	238:5,8,11	readership	199:24 256:17
319:17 416:21	246:24 249:11	381:12,20	301:17 329:2
473:13	249:15 251:9	readily 129:5	370:5 392:15
reaching	252:22 255:7	reading 81:12	433:2 493:7
311:16 321:5	255:17,17,24	84:14 101:8	505:10 518:6
416:23 464:3	256:10,18,21	110:15 127:15	527:15
read 12:19,23	256:21,23	132:24 189:2	realm 43:23
13:3,3,7 14:15	257:4,16	224:3 229:24	realtime 2:21
38:15,22 47:10	258:17,18	231:6 253:7	reanalyses
47:12 63:14	269:4 272:8	255:13,15	236:11
68:24 79:17	274:1,2,3,18	256:20 257:2,7	reason 34:8
80:11,14,15,17	275:2,3,3,6,18	257:13,15	122:14 144:4
81:22 82:6 85:2	278:16 284:11	258:2 273:7	169:8 178:18
86:8 88:3,19,21	285:7 296:12	275:5,17 292:1	260:10 283:12
88:24 95:1	296:21 297:3,7	322:3 323:13	294:19 316:9
96:20,22 98:3	309:7,9,13	348:7 352:13	328:5 402:8
99:16 107:1,21	319:6 329:4,7	357:13 374:12	434:23 455:1
109:10,16,18	332:23 333:20	400:11 486:3	505:2,6 509:8
109:22 110:3,4	335:7 337:6	491:3	532:18
110:13,19	340:10 346:20	reads 87:1	reasonable
132:7,17,18	362:4 364:3,6	95:19 96:13	95:13,20,21
134:18 136:3	368:22,24	353:2 364:18	140:1 332:9
143:10,12	374:1 375:8,10	366:6 369:7	367:2,5 416:22
163:15 168:16	375:23,24	374:21 381:4	418:17 443:16
176:13 178:2	381:8 385:8	400:19 406:12	527:6,16
181:18 186:4,7	401:15 404:10	501:20 510:24	reasonableness
195:23 196:1	406:7 407:6,8	ready 133:4	205:12
200:16,18,22	407:15 410:5	real 21:12	reasonably
205:21 211:4	410:15,17	303:16 349:12	99:14 106:21
218:22 221:6,9	421:16 422:16	391:5	234:18
221:12,15,20	426:13 431:15		

[reasons - refer]

Page 79

reasons 179:11	238:24 244:11	390:2 535:17	record 14:2
179:12 217:7	253:9,12	recess 21:13	21:12 34:11
233:12 388:12	280:14 311:7	44:5 62:21	44:4 62:18,20
436:23 463:13	320:22 333:22	133:21 139:18	62:24 63:14
reassess 416:24	343:8,11	179:17 217:17	76:3 110:14,17
recall 13:1,14	385:18 386:6	247:15 293:2	133:20 139:16
13:15 33:7,16	386:10,11	301:20 342:11	139:21 179:16
33:20 34:5	387:12 407:1	346:9 349:14	217:15 218:9
43:20 45:8	407:18,21	355:9 391:6	225:11 247:10
46:20 47:18	416:17 430:15	417:6,21 493:3	247:14,18
48:18 50:1,23	449:13 461:9	499:15	257:12 292:19
51:4,24 56:16	469:10 502:6	recognition	293:1,5 301:19
56:18 59:7,14	502:21 503:2	456:12,13	301:23 342:9
60:3,11 62:3	503:21 513:2	recognize 61:14	342:14 345:17
64:7,9,24 65:5	recalled 172:13	61:15,19	345:18,24
66:13 71:19	173:10 189:1,8	163:10 371:18	346:2,4,6,8,12
83:8 85:23,24	189:13	530:14	349:12 355:2,4
86:5,11 88:23	recalling	recognized	355:6,12 391:5
94:21,24	165:24	168:19 324:3	391:9 417:5,9
111:18 117:7	receive 14:18	recognizes	426:13 431:15
127:23 128:4,4	19:1 409:7,7	485:11	461:5 482:22
128:10,23	received 48:20	recollection	497:7 499:19
129:5,12,19	49:8 66:7 251:2	62:5 86:2 172:2	536:5
145:9 160:15	381:20	172:8 174:23	recorded 55:18
161:3,9,10	recent 13:16	175:7 176:9	records 62:9
165:18 166:6	25:6 117:24	448:15 449:5	65:1,3,6,10,11
166:10,12	118:9 121:3	recommend	65:14,19
168:13,19	170:4 214:19	117:2 525:17	recruiting
169:2,9 170:3,7	215:11 217:3	recommendat	128:19 282:3
170:16 178:15	362:16 390:10	396:18	reduce 462:21
179:6,11,13	481:7,7,8,10	recommendat	reduced 182:11
182:8,20	recently 68:8,9	332:4	refer 47:14,16
188:18,19	74:4 92:12,22	recommended	72:21 104:1
189:17 194:1,6	94:11 270:19	307:17 331:24	109:9 161:14
228:14,22	270:21 273:18	363:16	215:3,14,24
229:22 238:23	310:23 366:3		217:4 220:19
-	Gollrow To		

[refer - registered]

Page 80

[refer registered]			i age oo
243:16,24	137:14 197:24	refinements	333:18 337:9,9
269:22 287:16	215:22 217:3	442:6	344:6 350:12
298:20 322:6	219:23 221:22	reflect 78:24	350:16 354:21
322:19 341:12	244:15 416:15	79:7 85:23	360:8 370:15
367:20 381:16	references 40:7	257:13 504:23	373:23 379:17
397:10 398:14	46:10 194:8	reflected 80:22	381:17 382:2
422:13 431:2	217:4,10	81:3 404:19	384:1 386:1
474:8 481:23	469:11 500:24	reflects 87:18	390:20 392:19
reference 40:7	531:22	regard 18:21	410:8 504:17
168:12 179:20	referencing	26:24 28:20	505:15 510:21
193:23 195:3,5	248:3	30:9 36:14	517:8 519:7
195:8,9,15	referred 105:18	50:10 52:19	520:4 521:8,15
213:22 221:4	198:20 221:16	53:21 55:6,10	531:13 532:5
241:23,24	243:8 249:19	65:13 74:3 77:5	533:19
242:3 247:3	referring 46:24	79:16 81:21	regarded
248:10 254:2	106:13 142:14	83:10 89:24	174:24 175:9
268:13,22	243:7 258:23	113:8 117:8	176:10
282:1 283:10	260:24 278:8	149:23 151:3	regarding
283:24 290:10	282:17 283:15	155:6 156:9	34:23 35:10,22
292:17 294:16	286:20,21	161:8 164:2	40:16 50:14
294:17 295:1	294:1 362:21	173:6 184:14	88:8,16 135:10
295:15 298:15	401:6 404:21	200:15 201:7	148:11 163:11
299:10,13	444:7 450:10	209:4 212:20	212:3 230:20
300:6,13,23	525:7	219:4 227:19	238:1 306:11
303:21 347:5	refers 54:8,18	227:20 228:7	regardless
355:19 359:18	54:23 141:15	228:23 235:22	306:13 313:23
361:4 362:7,8	230:23 247:24	239:23 241:18	316:12
370:14 389:9	250:1 264:20	244:1 245:14	regards 104:13
397:1,6 398:23	269:18 270:10	250:7 254:24	335:8
410:19,20,23	283:20	261:16 262:19	region 423:4
415:1 440:9	refine 173:19	266:3 267:16	register 11:9
469:6 470:9	refined 524:7	268:3 269:13	482:23 531:21
500:23 528:18	refinement	282:13 290:9	533:6,13
530:5	126:12,13	293:17 300:2	registered 2:22
referenced	186:20	309:16 310:19	539:4
37:5,8,18		311:14 320:9	

[registry - replicability]

Page 81

registry 265:4	143:5,22 145:7	302:6 313:13	remains 130:5
regression	145:19,24	411:20 450:21	319:4 441:18
132:1	196:7,9 202:24	539:13,15	remember 13:9
regular 152:22	227:19 242:4	relatively 85:22	13:11,12,12,17
337:17,20	243:4,18	348:16 407:2	29:12 33:18
412:4 416:4	245:19 247:23	relevance 253:5	59:19 61:21
463:16 524:23	299:4,16	relevancy	91:14 113:17
regularly 354:7	531:14	475:14	152:11 157:19
regulation	relating 447:10	relevant 47:24	170:18 186:7
11:11	relation 111:9	102:19 118:9	249:15 427:1
regulatory 5:21	111:10 131:15	212:11 253:18	428:5,8 457:24
36:24 191:20	132:5 153:1	378:18 400:7	468:3 469:16
211:21 224:16	249:16 256:6	512:7 520:8,9	473:14 480:9
436:6 442:13	369:22	reliability	493:9,12,16
443:10 444:6	relations	206:3	516:10
reiterate 535:2	131:13	reliable 159:15	remind 515:21
reiterated	relationship	205:23 206:1,9	removed 146:6
453:19	66:5 67:24	254:19 265:18	repeat 27:7
reject 377:24	280:2 315:23	266:2,11 267:3	32:18 216:23
rejecting	331:20,21	267:17 268:4	223:24 224:21
231:16	375:22 383:5	292:12 311:16	225:15 226:7
rejection	462:4 502:4	316:14 333:17	267:23 295:12
248:23	relationships	333:18 509:7	299:20,20
relate 176:7	84:11 85:10	relied 218:13	340:5 346:19
208:10 230:13	87:8 125:15	218:22 268:4	383:10 413:2
292:8 403:11	relative 32:2,23	312:19 532:7	452:24
403:12 431:19	72:15 101:4,10	relies 358:10	rephrase
related 28:22	102:4,14,23	409:9	160:21 223:24
33:9 129:18	103:4 105:11	rely 41:14	replace 273:23
158:6 175:12	129:7 131:2	213:20 267:18	replacement
197:1 229:16	169:18 172:14	292:1 321:5	113:21 114:3
232:18 319:23	173:11 177:22	350:5 358:23	130:23 156:23
320:24 328:6	178:11 181:8	410:18	158:2,4
388:8 427:16	185:9 187:22	remain 358:2	replicability
relates 38:19	233:9 290:14	remaining	8:16 361:20
63:3 111:7	295:3 297:13	391:12	366:16

[replicate - report]

Page 82

replicate	114:24 115:4,7	213:3,5,8,11,13	298:14 300:6
147:16	115:12,14	213:16,23	303:22 304:1
replication	116:6,19	214:12,17	304:13 309:17
431:17	117:14,16,18	215:4,5,11,20	310:3 317:1
reply 385:11	118:3,6,14,18	215:21 216:8	318:16 321:2
388:17,23	118:21 119:6,9	217:3 219:5,19	322:6,19,22
report 5:15	119:22 120:4,8	220:8,21 221:4	323:4 324:18
16:11 37:11,15	120:13 121:13	221:10,14	333:3,6 341:13
39:13 48:3,12	121:15,18,20	224:19,24	342:1 347:4,6,7
48:16 49:18	122:9 126:15	225:2 228:24	348:24 349:1,6
50:2,4,7,11,15	128:10,15,16	230:11,16,23	349:19 357:5
54:9,11,14 57:7	132:12 134:24	231:24 232:13	357:16,17
57:10,10,16	135:6,18,21	232:21 234:5	358:6,24 360:1
62:15 63:20	136:5,7,19	237:8,13 238:3	360:4,7 361:1,4
72:9,18,20	137:15 138:10	239:3,7 240:11	367:2 368:14
73:11,17,20,23	139:24 142:12	240:15 241:2	370:3 381:23
74:7,9,13 75:2	143:4 144:8	241:23,24	382:21 386:4
75:4,18,19,22	145:4,24 146:3	242:4,12 243:4	386:17,17
76:4,7,13 77:6	149:24 152:24	244:2,4,10,21	388:13,13,14
77:9,20,24 79:2	153:17 161:11	245:6,9 248:4,7	392:22 397:1,5
79:5,8,11,16,17	161:12,14	248:10 249:19	397:10 398:13
79:20 81:6	162:2 166:15	254:3,16,22	398:24 399:11
82:10,13 89:8	168:2 173:2	263:2 264:19	399:15 410:22
89:11,15 90:1	183:7 185:11	268:12,19,24	415:1,5,8,18,23
90:22 91:2 99:2	187:15 188:9	269:18,22,24	447:16,20
99:19 100:4	188:10 190:2,9	270:22 276:16	460:5,7 462:13
101:18 102:3	190:13 191:18	281:7 282:11	466:2,4,14
103:18,19,20	192:5,12,15	282:15,21	467:4,8 468:20
105:21 106:7	193:15,24	283:20 287:12	468:22,23
107:19 108:5	194:3,9,13	287:16,20	470:10,11
108:10,17,19	195:3 196:23	288:8,15 289:6	471:20,24
110:7,18,20	197:17,19,23	292:17 293:22	472:9,12,14,15
111:22 112:1,1	198:7,8,20	293:23 294:5,6	477:16 479:3
112:4,7,13,14	199:6 200:16	294:14,16,17	479:18 481:22
113:9,13,19	200:17 201:1,2	294:18 295:1	499:24 500:15
114:2,8,15,20	204:8 212:20	295:15,16,22	502:8 508:1,8

[report - response]

Page 83

514:6 517:11	223:20 299:24	required	535:7
520:14 522:8	392:4 411:20	182:19 526:2	reserves 214:10
530:3,4,20	511:7 516:14	reread 85:3	resilient 505:7
531:19 532:11	reports 28:13	406:2	resolved 31:12
533:22 534:15	40:8,19 41:2,15	reschedule	resource
534:18	132:11 201:6	493:2	265:18 266:3
reported 1:23	201:20 202:20	research 24:1,3	266:11,15
96:18 101:11	203:9,21 204:1	24:10,17,21	respect 57:18
102:4,15 103:3	216:17,19	25:11 92:1	89:20 128:15
118:14,15	491:11,12	111:9 147:13	130:16 210:17
122:1 164:2	represent	206:18,19	220:4 229:20
165:16,17	183:14 211:12	235:17 265:8	260:5 326:3
181:5 183:8	287:14 394:10	265:15 266:4	333:19 334:3
267:2 287:7,19	431:7 454:21	266:23,24	335:14 345:12
288:18 290:11	470:3,8	267:7,10	389:22 407:12
290:14 295:4,6	representing	309:24 310:2,5	407:20 434:5
296:8 297:12	17:15 19:5,18	310:22,22	479:20,21
302:6 324:11	22:11 202:21	311:22 313:8	504:4 505:12
326:19 329:20	268:10 392:24	320:19 328:15	512:6 513:21
337:17 353:7	393:12 480:24	328:19 329:3	respectful
369:10 381:5	529:21	329:12 330:4	491:5
388:3 389:10	represents	381:6 411:18	respond 140:18
395:12 415:16	312:8	415:4,12	202:23 214:15
416:5 465:21	reproductive	418:16 419:21	527:3
472:21 489:2,3	23:17 127:13	419:21 422:15	respondent
502:2 506:18	371:6,9 375:16	427:14 429:11	512:8,8
507:14 508:2	388:1 423:5	439:8 441:19	respondents
513:17 517:2,7	433:10 476:21	443:3 458:10	512:5,6
519:2 521:23	511:9,21	460:20 465:22	responding
524:3,6 529:5	request 14:21	511:2	262:8 386:2
reporter 2:21	196:11 201:2	researching	response 9:1
2:22 63:14	201:19 466:15	235:19	33:6 34:17
482:11 527:8	466:23 531:4	resected 356:13	52:22 84:10
539:1,4	requested 72:9	reserve 213:10	85:10 87:5,6,8
reporting 147:5	require 250:11	214:11 216:17	87:22 88:1
172:2 189:7	250:15 263:21	417:12 527:4	109:14 111:7

[response - reviewed]

Page 84

111:19 115:5	515:9 516:16	170:14 171:17	82:24 92:10
115:13 116:10	519:2 525:7	175:13 183:24	94:11,19,23
117:8,10 118:3	533:5,9 534:4	185:13 239:12	97:16 101:5
118:10,15,15	536:10	259:3 261:5	112:3,17
120:16,20	responses	279:13,15	146:15,17
121:22 122:1	261:18 512:3	289:23 291:17	147:2,10 157:1
122:10,24	responsibilities	291:23 326:23	170:9,19 171:2
123:12 125:13	291:13	336:21 344:10	171:8 207:11
125:15 126:1,7	responsibility	344:14 347:1	219:19,22
126:8,11 131:4	263:5 290:22	364:22 366:11	220:15 230:18
141:23 187:4	responsible	366:15,17	237:4 248:11
229:17 234:24	277:6 356:9	371:13 387:23	248:13,13
243:13 244:16	360:20	400:20 409:9	250:20,24
244:21 249:22	rest 175:12	470:7 471:14	251:3,12,24
251:2 259:18	restart 510:6	476:20 504:7	254:23 261:21
259:20,22,23	restate 183:20	512:4	269:21 270:18
260:2 261:17	302:3 350:19	retained 73:20	273:18 277:17
262:16 280:2	restricted	193:17 418:4	277:21 286:4
318:14 323:1	144:17 183:12	429:15 431:4	352:24 353:12
330:23 331:5	371:5	retainer 19:1	355:1 357:19
331:10 335:8	restricting	48:22,23	357:20 397:23
338:2,16	344:7 346:22	retract 388:18	398:18 399:4,5
348:10 369:20	restriction	retrospective	399:18 405:16
379:14 380:8	169:21	385:19 386:10	408:15 423:24
385:6,10,22,23	result 153:15	387:13 502:1	427:18 437:12
387:5 394:14	196:11 233:1	revealed 261:7	438:10 439:16
423:14 433:3,7	233:13 258:14	review 6:15	440:5 443:19
434:5 446:20	297:21 303:11	7:16 9:4,10	448:5 477:18
455:10 457:6	313:18,22	10:18 17:19	493:21 514:20
458:22 459:16	314:11 502:6	22:21 31:23	514:24 515:4
462:4 471:18	resulted 529:16	32:4 39:16 40:6	519:12 530:21
472:1,16	resulting 185:7	40:11 43:6	532:4,5
486:11,14	419:9 483:23	45:17 47:15,19	reviewed 33:3
490:21 491:19	results 93:9	48:2 50:7 54:11	40:5,19,22
496:19 498:16	163:20 165:14	54:18 62:8	41:10 54:5,13
498:22 514:21	168:6,12 170:1	65:13 74:5	55:8 57:22

[reviewed - risk]

Page 3	85
--------	----

64:24 65:6,10	reviews 73:3	196:14,15,16	516:24 522:5
65:18 82:1,21	78:10 107:3	199:11 213:6	523:2 534:23
89:11 92:7,22	112:15 115:8	213:10 214:11	535:7 536:7
97:1,4 103:8	161:13 163:17	214:11 216:18	rigler 196:22
114:21 157:4,8	189:4 220:1	217:13 249:7	198:13 200:16
192:6,15	242:16 279:4	249:11 250:21	204:13 205:14
203:15 204:9	281:18 284:4	250:22 270:24	rigler's 193:23
204:11 206:20	287:9 288:21	271:1 273:14	197:19 201:1
219:4,9 220:1	304:1 328:23	274:11 276:16	203:16
238:15,19,20	335:10 340:4	278:13 279:22	rigor 267:7
240:2,13,19	344:11 345:1,4	281:8 285:11	366:9
244:15,17	345:15 352:23	285:22 327:6,6	ring 68:23
245:7,10	353:9,11,15	335:11 336:22	rise 130:8
248:14 253:18	354:3,11 399:6	344:1 351:10	risk 5:18 6:11
254:5 269:9,12	401:22 405:24	351:21 362:4	6:16 7:18,21
269:13 270:13	502:13 508:7	362:21 365:20	8:2,4,18,21 9:7
271:10 272:15	508:11 521:19	365:20 374:16	9:12 10:4,13,19
276:14 297:1	530:13	376:1 385:3,15	10:21 32:2,23
393:1,13,18	revisions 42:24	388:24 389:2,4	33:22 37:9,19
394:3,7 395:10	50:15,16,21	397:8 401:20	37:23 38:10
395:22 435:7	51:1	406:8 422:23	89:21 95:22
439:10 440:22	rice 61:18	426:8 430:14	101:5,10
459:3,5 460:9,9	right 17:21	434:17 437:24	104:14,15
463:5 474:6	27:16 31:10	444:17,24	105:11,14,15
479:10 491:7	54:19 61:16	447:18 449:6	107:8 113:24
497:5,5 510:17	72:23 77:7	449:22 451:23	114:12 115:2
513:23 515:8	82:22 93:16	454:19 459:13	115:18,20
521:2 531:7,9	95:10,17 96:9	464:23 468:8	119:23 129:7
531:10,13	117:24 128:22	469:4 472:24	130:6,16 131:2
reviewers	128:23 163:7	473:8 478:5,22	131:16 132:6
273:3,12	163:10 165:7	479:16 481:5	141:4 144:24
reviewing 54:9	177:7,15,18	483:4 487:9	148:13,19,20
89:2,4,7 203:10	179:23 184:17	497:24 498:6	149:11 150:18
206:18 207:10	190:17 194:11	499:6,12 500:8	151:8,10,11
247:3 248:1	195:18,18,18	503:3 507:15	152:5,6,16
271.3 270.1			

[risk - rushed] Page 86

157:13,22 372:2,2 375:7 risks 34:3 102:4 130:4 131:10 158:3,8,11,16 378:22 381:7 102:14,23 131:22 132:11 158:20,24 387:12 389:16 103:4 156:9 134:8,17 159:4,7,9,23,24 391:18 392:11 169:18 185:9 135:17 190:17 167:23 172:14 392:12 394:5,8 390:12 439:1 190:23 191:14 173:11,20 394:12 395:11 447:11 450:21 193:20 212:21 177:22 178:11 395:18,19,24 452:15,16 229:3 239:3 181:8,10 183:8 396:4,9,16 457:9,12 368:9 371:21 186:13 187:19 400:22 401:1 463:16 483:18 382:19 393:16 187:22 222:19 402:1,7 403:9 524:22 440:11,14 187:22 253:6 408:19 411:7 rsi 1:6 459:5 466:1,3 246:22 253:6 408:19 411:7 robert 18:18 459:20 258:16 260:6 411:20 412:9 robert 18:18 75:11 104:2 290:14,16;23 433:9 438:13 332:15,21,23 108:5 16:4 299:120 295:3 431:18 432:18 332:16,15 332:8 450				
158:20,24 387:12 389:16 103:4 156:9 134:8,17 159:4,7,9,23,24 391:18 392:11 169:18 185:9 135:17 190:17 167:23 172:14 392:12 394:5,8 390:12 439:1 190:23 191:14 173:11,20 394:12 395:11 447:11 450:21 193:20 212:21 177:22 178:11 395:18,19,24 452:15,16 229:3 239:3 181:8,10 183:8 396:4,9,16 457:9,12 368:9 371:21 186:13 187:19 400:22 401:1 463:16 483:18 382:19 393:16 187:22 222:19 402:1,7 403:9 524:22 440:11,14 226:17 233:9 404:5 405:4 rls 1:6 459:5 466:1,3 233:15,19 406:24 407:23 rls 1:6 459:5 466:1,3 246:22 253:6 408:19 411:7 robert 18:18 robert 18:18 258:16 260:6 411:20 412:9 robert 18:18 769:20 rothman's 279:18 280:11 415:23 416:39, robert 78:81.5 106:11 75:11 104:2 280:17 290:2 422:99,1 rosenblatt 8:3 <	157:13,22	372:2,2 375:7	risks 34:3 102:4	130:4 131:10
159:4,7,9,23,24 391:18 392:11 169:18 185:9 135:17 190:17 167:23 172:14 392:12 394:5,8 390:12 439:1 190:23 191:14 173:11,20 394:12 395:11 447:11 450:21 193:20 212:21 177:22 178:11 395:18,19,24 452:15,16 229:3 239:3 181:8,10 183:8 396:4,9,16 457:9,12 368:9 371:21 186:13 187:19 400:22 401:1 463:16 483:18 382:19 393:16 187:22 222:19 402:1,7 403:9 524:22 440:11,14 226:17 233:9 404:5 405:4 rls 1:6 459:5 466:1,3 233:15,19 406:24 407:23 rmr 1:23 467:6,23 468:9 246:22 253:6 408:19 411:7 539:21 robert 18:18 robert 18:18 robert 39:21 rothman's 279:18 280:11 415:23 416:3,9 role 166:11 75:11 104:2 108:5 116:4 290:14,16,23 430:23,24 332:15,21,23 126:15 320:22 297:14 300:21 433:9 438:13 rothman 5:17 66:11:3 23:6,8 470:10 471:19 305:12,16,23 445:24 447:3 48:45:11 56:9	158:3,8,11,16	378:22 381:7	102:14,23	131:22 132:11
167:23 172:14 392:12 394:5,8 390:12 439:1 190:23 191:14 173:11,20 394:12 395:11 447:11 450:21 193:20 212:21 177:22 178:11 395:18,19,24 452:15,16 229:3 239:3 181:8,10 183:8 396:4,9,16 457:9,12 368:9 371:21 186:13 187:19 400:22 401:1 463:16 483:18 382:19 393:16 187:22 222:19 402:1,7 403:9 524:22 440:11,14 226:17 233:9 404:5 405:4 rls 1:6 459:5 466:1,3 233:15,19 406:24 407:23 rmr 1:23 467:6,23 468:9 246:22 253:6 408:19 411:7 539:21 474:9 479:2 258:16 260:6 411:20 412:9 robert 18:18 robert 29:21 rothman's 279:18 280:11 415:23 416:3,9 role 166:11 75:11 104:2 290:14,16,23 430:23,24 332:15,21,23 126:15 320:22 297:14 300:21 433:9 438:13 36:611:3 23:6,8 47:24 472:9 305:12,16,23 445:24 447:3 48:45:11 56:9 route 223:8 31:4 31:8 450:9,15 45:4 57:2,16,24 <td>158:20,24</td> <td>387:12 389:16</td> <td>103:4 156:9</td> <td>134:8,17</td>	158:20,24	387:12 389:16	103:4 156:9	134:8,17
173:11,20 394:12 395:11 447:11 450:21 193:20 212:21 177:22 178:11 395:18,19,24 452:15,16 229:3 239:3 181:8,10 183:8 396:4,9,16 457:9,12 368:9 371:21 186:13 187:19 400:22 401:1 463:16 483:18 382:19 393:16 187:22 222:19 402:1,7 403:9 524:22 440:11,14 226:17 233:9 404:5 405:4 rls 1:6 459:5 466:1,3 233:15,19 406:24 407:23 rmr 1:23 467:6,23 468:9 246:22 253:6 408:19 411:7 539:21 474:9 479:2 258:16 260:6 411:20 412:9 robert 18:18 robert 499:20 rothman's 279:18 280:11 415:23 416:3,9 422:9,21 rosenblatt 8:3 108:5 116:4 280:17 290:2 433:18 432:18 332:15,21,23 126:15 320:22 290:14,16,23 431:18 432:18 333:20 466:2 467:8 297:14 300:21 433:9 438:13 rothman 5:17 6:6 11:3 23:6,8 471:24 472:9 305:12,16,23 450:9,15 451:4 66:22 67:14,20 72:4,12,17 75:5 75:8,12,23 77:5	159:4,7,9,23,24	391:18 392:11	169:18 185:9	135:17 190:17
177:22 178:11 395:18,19,24 452:15,16 229:3 239:3 181:8,10 183:8 396:4,9,16 457:9,12 368:9 371:21 186:13 187:19 400:22 401:1 463:16 483:18 382:19 393:16 187:22 222:19 402:1,7 403:9 524:22 440:11,14 226:17 233:9 404:5 405:4 rls 1:6 459:5 466:1,3 233:15,19 406:24 407:23 rmr 1:23 467:6,23 468:9 246:22 253:6 408:19 411:7 539:21 474:9 479:2 258:16 260:6 411:20 412:9 robert 18:18 499:20 263:9 277:13 415:3,12,15,19 robert 69:21 rothman's 279:18 280:11 415:23 416:3,9 role 166:11 75:11 104:2 290:14,16,23 430:23,24 332:15,21,23 332:20 466:2 467:8 297:14 300:21 433:9 438:13 333:20 466:2 467:8 470:10 471:19 301:4 302:6 441:23 442:10 6:6 11:3 23:6,8 471:24 472:9 rouss 208:19 31:4 312:8 450:9,15 451:4 57:2,16,24 66:22 67:14,20 72:4,12,17 75:5 449:16 </td <td>167:23 172:14</td> <td>392:12 394:5,8</td> <td>390:12 439:1</td> <td>190:23 191:14</td>	167:23 172:14	392:12 394:5,8	390:12 439:1	190:23 191:14
181:8,10 183:8 396:4,9,16 457:9,12 368:9 371:21 186:13 187:19 400:22 401:1 463:16 483:18 382:19 393:16 187:22 222:19 402:1,7 403:9 524:22 440:11,14 226:17 233:9 404:5 405:4 rls 1:6 459:5 466:1,3 233:15,19 406:24 407:23 rmr 1:23 467:6,23 468:9 246:22 253:6 408:19 411:7 539:21 474:9 479:2 258:16 260:6 411:20 412:9 robert 18:18 499:20 263:9 277:13 415:3,12,15,19 robert 499:20 rothman's 279:18 280:11 415:23 416:3,9 role 166:11 75:11 104:2 280:17 290:2 422:9,21 rosenblatt 8:3 108:5 116:4 290:14,16,23 430:23,24 333:20 466:2 467:8 297:14 300:21 433:9 438:13 450:9,15 451:4 453:9 454:12 6:6 11:3 23:6,8 470:10 471:19 305:12,16,23 445:24 447:3 453:9 454:12 66:22 67:14,20 72:4,12,17 75:5 449:16 325:6 327:10	173:11,20	394:12 395:11	447:11 450:21	193:20 212:21
186:13 187:19 400:22 401:1 463:16 483:18 382:19 393:16 187:22 222:19 402:1,7 403:9 524:22 440:11,14 226:17 233:9 404:5 405:4 rls 1:6 459:5 466:1,3 233:15,19 406:24 407:23 rmr 1:23 467:6,23 468:9 246:22 253:6 408:19 411:7 539:21 474:9 479:2 258:16 260:6 411:20 412:9 robert 18:18 499:20 263:9 277:13 415:3,12,15,19 robert 69:21 rothman's 279:18 280:11 415:23 416:3,9 role 166:11 75:11 104:2 280:17 290:2 422:9,21 rosenblatt 8:3 108:5 116:4 290:14,16,23 430:23,24 332:15,21,23 126:15 320:22 291:20 295:3 431:18 432:18 333:20 rothman's 297:14 300:21 433:9 438:13 rothman 5:17 470:10 471:19 301:4 302:6 441:23 442:10 6:6 11:3 23:6,8 471:24 472:9 31:4 312:8 450:9,15 451:4 57:2,16,24 route 223:8 31:4 32:8 450:9,15 451:4 75:8,12,23 77:5 rsi 411:8 <td>177:22 178:11</td> <td>395:18,19,24</td> <td>452:15,16</td> <td>229:3 239:3</td>	177:22 178:11	395:18,19,24	452:15,16	229:3 239:3
187:22 222:19 402:1,7 403:9 524:22 440:11,14 226:17 233:9 404:5 405:4 rls 1:6 459:5 466:1,3 233:15,19 406:24 407:23 rmr 1:23 467:6,23 468:9 246:22 253:6 408:19 411:7 539:21 474:9 479:2 258:16 260:6 411:20 412:9 robert 18:18 499:20 263:9 277:13 415:3,12,15,19 roberta 69:21 rothman's 279:18 280:11 415:23 416:3,9 role 166:11 75:11 104:2 280:17 290:2 422:9,21 rosenblatt 8:3 108:5 116:4 290:14,16,23 430:23,24 332:15,21,23 126:15 320:22 291:20 295:3 431:18 432:18 333:20 466:2 467:8 297:14 300:21 433:9 438:13 rothman 5:17 470:10 471:19 301:4 302:6 441:23 442:10 6:6 11:3 23:6,8 471:24 472:9 311:4 312:8 450:9,15 451:4 66:22 67:14,20 routs 23:8 31:13 33:6:21 453:9 454:12 66:22 67:14,20 routs 23:8 329:18 330:24 486:6,16,18,22 77:21,23 78:3,6 rule 64:17 <td>181:8,10 183:8</td> <td>396:4,9,16</td> <td>457:9,12</td> <td>368:9 371:21</td>	181:8,10 183:8	396:4,9,16	457:9,12	368:9 371:21
226:17 233:9 404:5 405:4 rls 1:6 459:5 466:1,3 233:15,19 406:24 407:23 rmr 1:23 467:6,23 468:9 246:22 253:6 408:19 411:7 539:21 474:9 479:2 258:16 260:6 411:20 412:9 robert 18:18 499:20 263:9 277:13 415:3,12,15,19 roberta 69:21 rothman's 279:18 280:11 415:23 416:3,9 role 166:11 75:11 104:2 280:17 290:2 422:9,21 rosenblatt 8:3 108:5 116:4 290:14,16,23 430:23,24 332:15,21,23 126:15 320:22 291:20 295:3 431:18 432:18 333:20 466:2 467:8 297:14 300:21 433:9 438:13 rothman 5:17 466:2 467:8 305:12,16,23 445:24 447:3 48:4 50:11 56:9 roussa 208:19 311:4 312:8 450:9,15 451:4 66:22 67:14,20 route 223:8 312:21,23 463:14 464:5,6 72:4,12,17 75:5 449:16 329:18 330:24 486:6,16,18,22 77:21,23 78:3,6 rsi 411:8 329:18 330:24 486:24 487:3 78:8,17 79:1,5	186:13 187:19	400:22 401:1	463:16 483:18	382:19 393:16
233:15,19 406:24 407:23 rmr 1:23 467:6,23 468:9 246:22 253:6 408:19 411:7 539:21 474:9 479:2 258:16 260:6 411:20 412:9 robert 18:18 499:20 263:9 277:13 415:3,12,15,19 roberta 69:21 rothman's 279:18 280:11 415:23 416:3,9 role 166:11 75:11 104:2 280:17 290:2 422:9,21 rosenblatt 8:3 108:5 116:4 290:14,16,23 430:23,24 332:15,21,23 126:15 320:22 291:20 295:3 431:18 432:18 333:20 466:2 467:8 297:14 300:21 433:9 438:13 6:6 11:3 23:6,8 470:10 471:19 301:4 302:6 441:23 442:10 48:4 50:11 56:9 70:47:10 471:19 305:12,16,23 445:24 447:3 48:4 50:11 56:9 70:24:12,17 75:5 31:4 312:8 450:9,15 451:4 66:22 67:14,20 72:4,12,17 75:5 49:16 32:21,23 466:23 448:12 72:4,12,17 75:5 75:8,12,23 77:5 75:8,12,23 77:5 75:41:18 32:8 334:7,13 487:10,10	187:22 222:19	402:1,7 403:9	524:22	440:11,14
246:22 253:6 408:19 411:7 539:21 474:9 479:2 258:16 260:6 411:20 412:9 robert 18:18 499:20 263:9 277:13 415:3,12,15,19 roberta 69:21 rothman's 279:18 280:11 415:23 416:3,9 role 166:11 75:11 104:2 280:17 290:2 422:9,21 rosenblatt 8:3 108:5 116:4 290:14,16,23 430:23,24 332:15,21,23 126:15 320:22 291:20 295:3 431:18 432:18 333:20 466:2 467:8 297:14 300:21 433:9 438:13 rothman 5:17 470:10 471:19 301:4 302:6 441:23 442:10 6:6 11:3 23:6,8 471:24 472:9 305:12,16,23 445:24 447:3 48:4 50:11 56:9 roussa 208:19 311:4 312:8 450:9,15 451:4 57:2,16,24 route 223:8 312:21,23 463:14 464:5,6 72:4,12,17 75:5 449:16 329:18 330:24 486:6,16,18,22 77:21,23 78:3,6 rule 64:17 331:6,15 332:8 486:24 487:3 78:8,17 79:1,5 214:19 274:9 335:2,4 336:24 496:11 500:11 98:10 99:3,22	226:17 233:9	404:5 405:4	rls 1:6	459:5 466:1,3
258:16 260:6 411:20 412:9 robert 18:18 499:20 263:9 277:13 415:3,12,15,19 roberta 69:21 rothman's 279:18 280:11 415:23 416:3,9 role 166:11 75:11 104:2 280:17 290:2 422:9,21 rosenblatt 8:3 108:5 116:4 290:14,16,23 430:23,24 332:15,21,23 126:15 320:22 291:20 295:3 431:18 432:18 333:20 466:2 467:8 297:14 300:21 433:9 438:13 rothman 5:17 466:2 467:8 305:12,16,23 445:24 447:3 48:4 50:11 56:9 470:10 471:19 305:12,16,23 445:24 447:3 48:4 50:11 56:9 roussa 208:19 311:4 312:8 450:9,15 451:4 57:2,16,24 route 223:8 31:313 316:21 453:9 454:12 66:22 67:14,20 route 223:8 32:12,23 466:14 66:5,6 72:4,12,17 75:5 449:16 329:18 330:24 486:6,16,18,22 77:21,23 78:3,6 49:16 332:8 334:7,13 487:10,10 98:10 99:3,22 50:26 503:2 337:16 338:14 503:10,15 100:13 101:11 50:2	233:15,19	406:24 407:23	rmr 1:23	467:6,23 468:9
263:9 277:13 415:3,12,15,19 roberta 69:21 rothman's 279:18 280:11 415:23 416:3,9 role 166:11 75:11 104:2 280:17 290:2 422:9,21 rosenblatt 8:3 108:5 116:4 290:14,16,23 430:23,24 332:15,21,23 126:15 320:22 291:20 295:3 431:18 432:18 333:20 466:2 467:8 297:14 300:21 433:9 438:13 rothman 5:17 301:4 302:6 441:23 442:10 6:6 11:3 23:6,8 471:24 472:9 305:12,16,23 445:24 447:3 48:4 50:11 56:9 roussa 208:19 311:4 312:8 450:9,15 451:4 66:22 67:14,20 route 223:8 312:21,23 463:14 464:5,6 72:4,12,17 75:5 449:16 329:18 330:24 486:6,16,18,22 77:21,23 78:3,6 449:16 329:18 330:24 486:24 487:3 78:8,17 79:1,5 214:19 274:9 332:8 334:7,13 487:10,10 98:10 99:3,22 502:6 503:2 337:16 338:14 503:10,15 100:13 101:11 502:6 503:2 348:5,19	246:22 253:6	408:19 411:7	539:21	474:9 479:2
279:18 280:11 415:23 416:3,9 role 166:11 75:11 104:2 280:17 290:2 422:9,21 rosenblatt 8:3 108:5 116:4 290:14,16,23 430:23,24 332:15,21,23 126:15 320:22 291:20 295:3 431:18 432:18 333:20 466:2 467:8 297:14 300:21 433:9 438:13 rothman 5:17 470:10 471:19 301:4 302:6 441:23 442:10 6:6 11:3 23:6,8 471:24 472:9 305:12,16,23 445:24 447:3 48:4 50:11 56:9 roussa 208:19 311:4 312:8 450:9,15 451:4 57:2,16,24 route 223:8 313:13 316:21 453:9 454:12 66:22 67:14,20 route 449:15 325:6 327:10 465:23 483:16 75:8,12,23 77:5 rsi 411:8 329:18 330:24 486:6,16,18,22 77:21,23 78:3,6 rule 64:17 331:6,15 332:8 486:24 487:3 78:8,17 79:1,5 214:19 274:9 332:8 334:7,13 487:10,10 98:10 99:3,22 511:6 534:8 339:16 343:4 503:10,15 100:13 101:11 502:6 503:2 348:5,19 354:7 509:12,16 108:11 109:5<	258:16 260:6	411:20 412:9	robert 18:18	499:20
280:17 290:2 422:9,21 rosenblatt 8:3 108:5 116:4 290:14,16,23 430:23,24 332:15,21,23 126:15 320:22 291:20 295:3 431:18 432:18 333:20 466:2 467:8 297:14 300:21 433:9 438:13 rothman 5:17 470:10 471:19 301:4 302:6 441:23 442:10 6:6 11:3 23:6,8 471:24 472:9 305:12,16,23 445:24 447:3 48:4 50:11 56:9 roussa 208:19 311:4 312:8 450:9,15 451:4 57:2,16,24 route 223:8 313:13 316:21 453:9 454:12 66:22 67:14,20 route 223:8 325:6 327:10 465:23 483:16 72:4,12,17 75:5 449:16 329:18 330:24 486:6,16,18,22 77:21,23 78:3,6 rsi 411:8 329:18 334:7,13 487:10,10 79:11,24 80:8 479:20 483:14 335:2,4 336:24 496:11 500:11 98:10 99:3,22 502:6 503:2 337:16 338:14 503:10,15 100:13 101:11 511:6 534:8 348:5,19 354:7 509:12,16 108:11 109:5 rules 15:8 366:23 367:10 515:19 516:2,5 <t< td=""><td>263:9 277:13</td><td>415:3,12,15,19</td><td>roberta 69:21</td><td>rothman's</td></t<>	263:9 277:13	415:3,12,15,19	roberta 69:21	rothman's
290:14,16,23 430:23,24 332:15,21,23 126:15 320:22 291:20 295:3 431:18 432:18 333:20 466:2 467:8 297:14 300:21 433:9 438:13 rothman 5:17 470:10 471:19 301:4 302:6 441:23 442:10 6:6 11:3 23:6,8 471:24 472:9 305:12,16,23 445:24 447:3 48:4 50:11 56:9 roussa 208:19 311:4 312:8 450:9,15 451:4 57:2,16,24 route 223:8 313:13 316:21 453:9 454:12 66:22 67:14,20 route 223:8 321:21,23 463:14 464:5,6 72:4,12,17 75:5 449:16 329:18 330:24 486:6,16,18,22 77:21,23 78:3,6 rule 64:17 331:6,15 332:8 486:24 487:3 78:8,17 79:1,5 214:19 274:9 332:8 334:7,13 487:10,10 79:11,24 80:8 479:20 483:14 335:2,4 336:24 496:11 500:11 98:10 99:3,22 502:6 503:2 337:16 338:14 503:10,15 100:13 101:11 511:6 534:8 348:5,19 354:7 509:12,16 108:11 109:5 rules 15:8 366:23 367:10 515:19 516:2,5 111:6 117:2 rushed 199:11 367:15 369:11 517:3 518:4 <td>279:18 280:11</td> <td>415:23 416:3,9</td> <td>role 166:11</td> <td>75:11 104:2</td>	279:18 280:11	415:23 416:3,9	role 166:11	75:11 104:2
291:20 295:3 431:18 432:18 333:20 466:2 467:8 297:14 300:21 433:9 438:13 rothman 5:17 470:10 471:19 301:4 302:6 441:23 442:10 6:6 11:3 23:6,8 471:24 472:9 305:12,16,23 445:24 447:3 48:4 50:11 56:9 roussa 208:19 311:4 312:8 450:9,15 451:4 57:2,16,24 route 223:8 313:13 316:21 453:9 454:12 66:22 67:14,20 routine 449:15 321:21,23 463:14 464:5,6 72:4,12,17 75:5 449:16 329:18 330:24 486:6,16,18,22 77:21,23 78:3,6 role 64:17 331:6,15 332:8 486:24 487:3 78:8,17 79:1,5 214:19 274:9 332:8 334:7,13 487:10,10 79:11,24 80:8 479:20 483:14 335:2,4 336:24 496:11 500:11 98:10 99:3,22 502:6 503:2 337:16 338:14 503:10,15 100:13 101:11 511:6 534:8 348:5,19 354:7 509:12,16 108:11 109:5 rules 15:8 366:23 367:10 515:19 516:2,5 111:6 117:2 rushed 199:11 367:15 369:11 517:3 518:4 126:21 127:11	280:17 290:2	422:9,21	rosenblatt 8:3	108:5 116:4
297:14 300:21 433:9 438:13 rothman 5:17 470:10 471:19 301:4 302:6 441:23 442:10 6:6 11:3 23:6,8 471:24 472:9 305:12,16,23 445:24 447:3 48:4 50:11 56:9 roussa 208:19 311:4 312:8 450:9,15 451:4 57:2,16,24 route 223:8 313:13 316:21 453:9 454:12 66:22 67:14,20 routine 449:15 321:21,23 463:14 464:5,6 72:4,12,17 75:5 449:16 329:18 330:24 486:6,16,18,22 77:21,23 78:3,6 rsi 411:8 329:18 330:24 486:24 487:3 78:8,17 79:1,5 214:19 274:9 332:8 334:7,13 487:10,10 79:11,24 80:8 479:20 483:14 335:2,4 336:24 496:11 500:11 98:10 99:3,22 502:6 503:2 337:16 338:14 503:10,15 100:13 101:11 511:6 534:8 348:5,19 354:7 509:12,16 108:11 109:5 rules 15:8 366:23 367:10 515:19 516:2,5 111:6 117:2 rushed 199:11 367:15 369:11 517:3 518:4 126:21 127:11 126:21 127:11	290:14,16,23	430:23,24	332:15,21,23	126:15 320:22
301:4 302:6 441:23 442:10 6:6 11:3 23:6,8 471:24 472:9 305:12,16,23 445:24 447:3 48:4 50:11 56:9 roussa 208:19 311:4 312:8 450:9,15 451:4 57:2,16,24 route 223:8 313:13 316:21 453:9 454:12 66:22 67:14,20 routine 449:15 321:21,23 463:14 464:5,6 72:4,12,17 75:5 449:16 325:6 327:10 465:23 483:16 75:8,12,23 77:5 rsi 411:8 329:18 330:24 486:6,16,18,22 77:21,23 78:3,6 rule 64:17 331:6,15 332:8 486:24 487:3 78:8,17 79:1,5 214:19 274:9 332:8 334:7,13 487:10,10 79:11,24 80:8 479:20 483:14 335:2,4 336:24 496:11 500:11 98:10 99:3,22 502:6 503:2 337:16 338:14 503:10,15 100:13 101:11 511:6 534:8 348:5,19 354:7 509:12,16 108:11 109:5 run 16:20 366:23 367:10 515:19 516:2,5 111:6 117:2 rushed 199:11 367:15 369:11 517:3 518:4 126:21 127:11	291:20 295:3	431:18 432:18	333:20	466:2 467:8
305:12,16,23 445:24 447:3 48:4 50:11 56:9 roussa 208:19 311:4 312:8 450:9,15 451:4 57:2,16,24 route 223:8 313:13 316:21 453:9 454:12 66:22 67:14,20 routine 449:15 321:21,23 463:14 464:5,6 72:4,12,17 75:5 449:16 329:18 330:24 486:6,16,18,22 77:21,23 78:3,6 rule 64:17 331:6,15 332:8 486:24 487:3 78:8,17 79:1,5 214:19 274:9 332:8 334:7,13 487:10,10 79:11,24 80:8 479:20 483:14 335:2,4 336:24 496:11 500:11 98:10 99:3,22 502:6 503:2 337:16 338:14 503:10,15 100:13 101:11 511:6 534:8 348:5,19 354:7 509:12,16 108:11 109:5 rules 15:8 348:5,19 354:7 509:12,16 108:11 109:5 run 16:20 366:23 367:10 515:19 516:2,5 111:6 117:2 rushed 199:11	297:14 300:21	433:9 438:13	rothman 5:17	470:10 471:19
311:4 312:8 450:9,15 451:4 57:2,16,24 route 223:8 313:13 316:21 453:9 454:12 66:22 67:14,20 routine 449:15 321:21,23 463:14 464:5,6 72:4,12,17 75:5 449:16 325:6 327:10 465:23 483:16 75:8,12,23 77:5 rsi 411:8 329:18 330:24 486:6,16,18,22 77:21,23 78:3,6 rule 64:17 331:6,15 332:8 486:24 487:3 78:8,17 79:1,5 214:19 274:9 332:8 334:7,13 487:10,10 79:11,24 80:8 479:20 483:14 335:2,4 336:24 496:11 500:11 98:10 99:3,22 502:6 503:2 337:16 338:14 503:10,15 100:13 101:11 511:6 534:8 348:5,19 354:7 509:12,16 108:11 109:5 rules 15:8 366:23 367:10 515:19 516:2,5 111:6 117:2 rushed 199:11 367:15 369:11 517:3 518:4 126:21 127:11	301:4 302:6	441:23 442:10	6:6 11:3 23:6,8	471:24 472:9
313:13 316:21 453:9 454:12 66:22 67:14,20 routine 449:15 321:21,23 463:14 464:5,6 72:4,12,17 75:5 449:16 325:6 327:10 465:23 483:16 75:8,12,23 77:5 rsi 411:8 329:18 330:24 486:6,16,18,22 77:21,23 78:3,6 rule 64:17 331:6,15 332:8 486:24 487:3 78:8,17 79:1,5 214:19 274:9 332:8 334:7,13 487:10,10 79:11,24 80:8 479:20 483:14 335:2,4 336:24 496:11 500:11 98:10 99:3,22 502:6 503:2 337:16 338:14 503:10,15 100:13 101:11 511:6 534:8 339:16 343:4 504:15 506:22 104:9,19 107:6 rules 15:8 348:5,19 354:7 509:12,16 108:11 109:5 run 16:20 366:23 367:10 515:19 516:2,5 111:6 117:2 rushed 199:11 367:15 369:11 517:3 518:4 126:21 127:11	305:12,16,23	445:24 447:3	48:4 50:11 56:9	roussa 208:19
321:21,23 463:14 464:5,6 72:4,12,17 75:5 449:16 325:6 327:10 465:23 483:16 75:8,12,23 77:5 rsi 411:8 329:18 330:24 486:6,16,18,22 77:21,23 78:3,6 rule 64:17 331:6,15 332:8 486:24 487:3 78:8,17 79:1,5 214:19 274:9 332:8 334:7,13 487:10,10 79:11,24 80:8 479:20 483:14 335:2,4 336:24 496:11 500:11 98:10 99:3,22 502:6 503:2 337:16 338:14 503:10,15 100:13 101:11 511:6 534:8 339:16 343:4 504:15 506:22 104:9,19 107:6 rules 15:8 348:5,19 354:7 509:12,16 108:11 109:5 run 16:20 366:23 367:10 515:19 516:2,5 111:6 117:2 rushed 199:11 367:15 369:11 517:3 518:4 126:21 127:11	311:4 312:8	450:9,15 451:4	57:2,16,24	route 223:8
325:6 327:10 465:23 483:16 75:8,12,23 77:5 rsi 411:8 329:18 330:24 486:6,16,18,22 77:21,23 78:3,6 rule 64:17 331:6,15 332:8 486:24 487:3 78:8,17 79:1,5 214:19 274:9 332:8 334:7,13 487:10,10 79:11,24 80:8 479:20 483:14 335:2,4 336:24 496:11 500:11 98:10 99:3,22 502:6 503:2 337:16 338:14 503:10,15 100:13 101:11 511:6 534:8 339:16 343:4 504:15 506:22 104:9,19 107:6 rules 15:8 348:5,19 354:7 509:12,16 108:11 109:5 run 16:20 366:23 367:10 515:19 516:2,5 111:6 117:2 rushed 199:11 367:15 369:11 517:3 518:4 126:21 127:11	313:13 316:21	453:9 454:12	66:22 67:14,20	routine 449:15
329:18 330:24 486:6,16,18,22 77:21,23 78:3,6 rule 64:17 331:6,15 332:8 486:24 487:3 78:8,17 79:1,5 214:19 274:9 332:8 334:7,13 487:10,10 79:11,24 80:8 479:20 483:14 335:2,4 336:24 496:11 500:11 98:10 99:3,22 502:6 503:2 337:16 338:14 503:10,15 100:13 101:11 511:6 534:8 339:16 343:4 504:15 506:22 104:9,19 107:6 rules 15:8 348:5,19 354:7 509:12,16 108:11 109:5 run 16:20 366:23 367:10 515:19 516:2,5 111:6 117:2 rushed 199:11 367:15 369:11 517:3 518:4 126:21 127:11	321:21,23	463:14 464:5,6	72:4,12,17 75:5	449:16
331:6,15 332:8 486:24 487:3 78:8,17 79:1,5 214:19 274:9 332:8 334:7,13 487:10,10 79:11,24 80:8 479:20 483:14 335:2,4 336:24 496:11 500:11 98:10 99:3,22 502:6 503:2 337:16 338:14 503:10,15 100:13 101:11 511:6 534:8 339:16 343:4 504:15 506:22 104:9,19 107:6 rules 15:8 348:5,19 354:7 509:12,16 108:11 109:5 run 16:20 366:23 367:10 515:19 516:2,5 111:6 117:2 rushed 199:11 367:15 369:11 517:3 518:4 126:21 127:11	325:6 327:10	465:23 483:16	75:8,12,23 77:5	rsi 411:8
332:8 334:7,13 487:10,10 79:11,24 80:8 479:20 483:14 335:2,4 336:24 496:11 500:11 98:10 99:3,22 502:6 503:2 337:16 338:14 503:10,15 100:13 101:11 511:6 534:8 339:16 343:4 504:15 506:22 104:9,19 107:6 rules 15:8 348:5,19 354:7 509:12,16 108:11 109:5 run 16:20 366:23 367:10 515:19 516:2,5 111:6 117:2 rushed 199:11 367:15 369:11 517:3 518:4 126:21 127:11	329:18 330:24	486:6,16,18,22	77:21,23 78:3,6	rule 64:17
335:2,4 336:24 496:11 500:11 98:10 99:3,22 502:6 503:2 337:16 338:14 503:10,15 100:13 101:11 511:6 534:8 339:16 343:4 504:15 506:22 104:9,19 107:6 rules 15:8 348:5,19 354:7 509:12,16 108:11 109:5 run 16:20 366:23 367:10 515:19 516:2,5 111:6 117:2 rushed 199:11 367:15 369:11 517:3 518:4 126:21 127:11	331:6,15 332:8	486:24 487:3	78:8,17 79:1,5	214:19 274:9
337:16 338:14 503:10,15 100:13 101:11 511:6 534:8 339:16 343:4 504:15 506:22 104:9,19 107:6 rules 15:8 348:5,19 354:7 509:12,16 108:11 109:5 run 16:20 366:23 367:10 515:19 516:2,5 111:6 117:2 rushed 199:11 367:15 369:11 517:3 518:4 126:21 127:11	332:8 334:7,13	487:10,10	79:11,24 80:8	479:20 483:14
339:16 343:4 504:15 506:22 104:9,19 107:6 rules 15:8 348:5,19 354:7 509:12,16 108:11 109:5 run 16:20 366:23 367:10 515:19 516:2,5 111:6 117:2 rushed 199:11 367:15 369:11 517:3 518:4 126:21 127:11	335:2,4 336:24	496:11 500:11	98:10 99:3,22	502:6 503:2
348:5,19 354:7 509:12,16 108:11 109:5 run 16:20 366:23 367:10 515:19 516:2,5 111:6 117:2 rushed 199:11 367:15 369:11 517:3 518:4 126:21 127:11	337:16 338:14	503:10,15	100:13 101:11	511:6 534:8
366:23 367:10 515:19 516:2,5 111:6 117:2 rushed 199:11 367:15 369:11 517:3 518:4 126:21 127:11	339:16 343:4	504:15 506:22	104:9,19 107:6	rules 15:8
367:15 369:11 517:3 518:4 126:21 127:11	348:5,19 354:7	509:12,16	108:11 109:5	run 16:20
	366:23 367:10	515:19 516:2,5	111:6 117:2	rushed 199:11
369.23 371.8 529.14 533.11 128.1 120.4	367:15 369:11	517:3 518:4	126:21 127:11	
307.23 371.0 327.14 333.11 120.1 127.4	369:23 371:8	529:14 533:11	128:1 129:4	

[s - search] Page 87

s 489:12 492:20 449:5 455:21 207:12 211:18 sac 219:15 says 45:16 45:22 458:17 215:15 236:24 safety 35:10 41:3 262:10,19 48:20 49:8,17 46:31 465:19 244:18 245:8 salary 17:10 sales 1:7 50:20,24 51:15 476:17 477:22 247:3 248:1,8,9 sales 1:7 42:15 476:17 477:22 247:3 248:1,8,9 sample 286:6 392:2 43:18 174:15 48:48:485:8 266:13,20,22 sandra 173:2 48:25:29:19 176:4 487:1,8,9 489:8 266:13,20,22 267:67,10 santary 423:2 448:8 250:15 534:7 534:7 534:7 36:10 119:22 488:21 503:3 36:12 1019:22 488:20 521:3 36:12 1019:22 488:20 521:3 382:16 418:18 428:3 435:5 428:3				
sace 219:15 says 45:16 461:4 462:3,19 240:14 244:12 244:18 245:8 246:11,13,16 244:12 244:18 245:8 246:11,13,16 244:18 245:8 246:11,13,16 244:18 245:8 246:11,13,16 244:18 245:8 246:11,13,16 244:18 245:8 246:11,13,16 247:3 248:1,8,9 248:14 251:3 246:11,13,16 247:3 248:1,8,9 248:14 251:3 246:11,13,16 247:3 248:1,8,9 248:14 251:3 247:15 99:11 483:9,11 484:7 247:3 248:1,8,9 248:14 251:3 248:14 251:3 254:18 256:14 254:18 256:14 254:18 256:14 254:18 256:14 254:18 256:14 266:13,20,22 270:23,31 271:15 fell 382:16 fell 382:16 fell	S	489:12 492:20	449:5 455:21	207:12 211:18
sac 219:15 says 45:16 461:4 462:3,19 240:14 244:12 240:14 244:12 safety 35:10 47:19 48:2,15 463:11 465:19 244:18 245:8 246:11,13,16 sales 17:10 50:20,24 51:15 50:20,24 51:15 476:17 477:22 247:3 248:1,8,9 salient 200:18 52:12 54:14 478:5 481:1,4 248:14 251:3 248:14 251:3 sample 286:6 392:2 106:11 123:12 488:9,11 484:7 254:18 256:14 248:8 256:14 sandra 385:6 421:1 175:2,19 176:4 487:1,8,9 489:8 266:13,20,22 267:6,7,10 sandra 173:2 175:2,19 176:4 487:1,8,9 489:8 268:11 310:12 362:6 364:2 santary 423:2 447:6 534:7 5a4:8 250:15 5a4:7 5a4:18 18 5a4:15 49:215:33:2 534:7 5a4:18 18 428:3 435:5 428:3 435:5 428:3 435:5 428:3 435:5 428:3 435:5 428:3 435:5 428:21:10 428:21:10 428:21:10 428:21:10 428:21:10 428:21:10 428:21:10	s 12:1			
safety 35:10 47:19 48:2,15 463:11 465:19 244:18 245:8 246:11,13,16 247:3 248:1,8,9 246:11,13,16 247:3 248:1,8,9 246:11,13,16 247:3 248:1,8,9 248:14 251:3 247:3 248:1,8,9 248:14 251:3 248:14 251:3 248:14 251:3 248:14 251:3 248:14 251:3 254:8 256:14			· · · · · · · · · · · · · · · · · · ·	
41:3 262:10,19 salary 17:10 sales 1:7 salient 200:18 sample 286:6 392:2 sandler 385:6 421:1 sanitary 423:2 447:6 sat 70:1 satisfies 458:19 satisfies 458:19 satisfies 458:19 satisfies 458:19 satisfies 458:19 satisfies 458:19 254:2 save 538:8 saw 99:1 155:20 196:17 284:14 389:16 433:8,9 457:2 477:19 489:23 530:23 534:3 saying 136:19 154:4 168:19 231:23 232:22 286:8 287:13 287:17 288:16 398:21 398:24 398:24 398:24 398:24 398:24 398:24 398:24 398:24 398:24 398:24 398:24 398:24 398:24 398:24 398:24 398:24 398:38 389:2,2,3,3 398:4,8 406:22 286:8 287:13 287:17 288:16 398:36:13 348:9 378:16 404:16 413:21		· · · · · · · · · · · · · · · · · · ·	463:11 465:19	
salary 17:10 50:20,24 51:15 476:17 477:22 247:3 248:1,8,9 sales 1:7 salient 200:18 50:20,24 51:15 476:17 477:22 247:3 248:1,8,9 sample 286:6 392:2 478:5 481:1,4 483:9,11 484:7 254:8 256:14 sample 286:6 392:2 175:2,19 176:4 487:1,8,9 489:8 266:13,20,22 267:6,7,10 sander 385:6 421:1 487:1,8,9 489:8 266:13,20,22 267:6,7,10 sandra 173:2 232:3 246:1,15 534:7 366:12,16 382:16 418:18 sanitary 423:2 448:8 250:15 scanning 8:11 366:12,16 382:16 418:18 428:3 435:5 488:20 521:3 366:12,16 382:16 418:18 428:3 435:5 488:20 521:3 366:12,16 382:16 418:18 428:3 435:5 488:20 521:3 366:12,16 382:16 418:18 428:3 435:5 488:20 521:3 366:12,16 382:16 418:18 428:3 435:5 488:20 521:3 366:12,16 382:16 418:18 428:3 435:5 488:20 521:3 360:1 362:11 488:2	_	·		· · ·
sales 1:7 salient 200:18 74:15 99:11 483:9,11 484:7 254:8 256:14 266:13,20,22 267:6,7,10 266:13,20,22 267:6,7,10 266:13,20,22 267:6,7,10 266:13,20,22 267:6,7,10 268:11 310:12 268:11 310:12 268:11 310:12 268:11 310:12 268:11 310:12 268:11 310:12 268:11 310:12 268:11 310:12 268:11 310:12 266:13,20,22 267:6,7,10 268:11 310:12 262:8 361:21 262:8 361:21 262:8 361:32 262:8 361:32 262:8 361:32 262:8 361:32 262:8 361:32 262:8 361:11 262:8 361:11 262:8 361:11 262:8 361	· · · · · · · · · · · · · · · · · · ·	50:20,24 51:15	476:17 477:22	247:3 248:1,8,9
salient 200:18 74:15 99:11 483:9,11 484:7 254:8 256:14 sample 286:6 392:2 483:18 174:15 486:1,10,12,20 266:13,20,22 267:6,7,10 sandler 385:6 421:1 481:5 196:6,21 487:1,8,9 489:8 268:11 310:12 268:11 310:12 sandra 173:2 487:1,8,9 489:8 268:11 310:12 362:6 364:2 sanitary 423:2 448:8 250:15 534:7 366:12,16 sat 70:1 253:17 259:2,8 53:17 259:2,8 6:10 119:22 488:20 521:3 satisfies 458:19 259:18 260:13 120:2,3 121:10 382:16 418:18 satisfy 233:10 273:17 276:9 121:15 161:9 36:111 36:111 254:2 289:22 283:15 161:15,17 26:21 245:7 254:20 260:1 saw 99:1 289:22 293:20 322:12,15,21 322:13,14,17 359:13,14,17 359:13,14,17 359:13,14,17 359:13,14,17 359:13,14,17 359:13,14,17 359:13,14,17 36:13 36:13 36:13 36:13 36:13 36:13		52:12 54:14	478:5 481:1,4	248:14 251:3
sample 392:2 106:11 123:12 143:18 174:15 484:8 485:8 486:1,10,12,20 267:6,7,10 266:13,20,22 267:6,7,10 sandler 385:6 421:1 175:2,19 176:4 181:5 196:6,21 232:3 246:1,15 248:8 250:15 489:21 503:3 362:6 364:2 366:12,16 362:6 364:2 366:12,16 santary 423:2 447:6 sat 70:1 satisfies 458:19 satisfy 233:10 254:2 save 538:8 saw 99:1 155:20 196:17 284:14 389:16 433:8,9 457:2 477:19 489:23 530:23 534:3 saying 136:19 154:4 168:19 231:23 232:22 286:8 287:13 287:17 288:16 319:8 336:13 348:9 378:16 404:16 413:21 106:11 123:12 448:8485:8 486:1,10,12,20 487:1,8,9 489:8 489:8 489:1 534:7 scanning 8:11 schildkraut 487:1,8,9 489:8 489:8 489:1 362:6 364:2 366:12,16 382:16 418:18 428:3 435:5 488:20 521:3 534:7 scanning 8:11 schildkraut 382:16 418:18 428:3 435:5 488:20 521:3 536:1 382:16 536:1 382:11 536:1 scientifically 206:21 245:7 254:20 260:1 scientifically 322:12,15,21 schildkraut's 119:21 414:14 488:2 262:8 361:11 382:12 424:3 477:19 489:23 530:23 534:3 soil 365:18 369:19 386:15 388:22 schools 441:5,7 science 365:8 439:13 473:1 scientific 34:2 394:4,8 406:22 409:1 410:24 422:14,19 423:12 424:3 423:12 424:3 423:12 424:3 423:12 424:3 423:12 424:3 423:13 473:1 scientific 34:2 scarch 46:12,15 41:14 444:2 2 42:14,19 423:2 32:22 301:16 43:22 32:22 32:21 301:16 43:22 32:24 235:9 23 sample 286: 4 1 1 1 23: 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1		74:15 99:11	483:9,11 484:7	254:8 256:14
392:2 143:18 174:15 486:1,10,12,20 267:6,7,10 sandler 385:6 175:2,19 176:4 487:1,8,9 489:8 268:11 310:12 sandra 173:2 232:3 246:1,15 362:6 364:2 sanitary 423:2 248:8 250:15 scanning 8:11 satisfies 458:19 253:17 259:2,8 6:10 119:22 488:20 521:3 satisfies 458:19 259:18 260:13 273:17 276:9 121:15 161:9 536:1 satisfies 233:10 254:2 259:18 260:13 120:2,3 121:10 536:1 saw 99:1 278:20 283:15 161:15,17 206:21 245:7 285:15 286:1 228:18,19 206:21 245:7 289:22 293:20 322:12,15,21 scientifically 359:18 363:3 322:12,15,21 scientists 148:2 477:19 489:23 359:18 363:3 25:2 26:3 190:8 191:1 277:2 350:23 534:3 365:18 369:19 38:16,19,23 39:4,8 406:22 286:8 287:13 394:4,8 406:22 439:13 473:1 39:4,7,11,21 38:16 418:18 39:4,7,11,21 30:4,7,11,21 39:8 36:13 348:9 378:16 404:16 413:21 426:3 438:6,7 426:3 438:6,7 426:3 438:6,7 <th></th> <td>106:11 123:12</td> <td>484:8 485:8</td> <td>266:13,20,22</td>		106:11 123:12	484:8 485:8	266:13,20,22
sandler 385:6 175:2,19 176:4 487:1,8,9 489:8 268:11 310:12 sandra 173:2 489:21 503:3 362:6 364:2 sanitary 423:2 447:6 488:250:15 366:12,16 sat 70:1 satisfies 458:19 488:20 521:3 382:16 418:18 satisfy 233:10 259:18 260:13 259:18 260:13 121:15 161:9 488:20 521:3 satisfy 233:10 273:17 276:9 161:15,17 206:21 245:7 254:20 260:1 322:12,15,21 scientifically saw 99:1 286:24 288:11 289:22 293:20 322:12,15,21 326:18 361:11 433:8,9 457:2 359:13,14,17 352:8 358:10 359:13,14,17 359:18 363:3 359:18 363:3 359:18 363:3 359:18 363:3 359:18 363:3 359:18 363:3 365:18 369:19 386:15 388:22 386:15 388:22 386:15 388:22 386:15 388:22 386:15 388:22 394:4,8 406:22 394:4,8 406:22 394:4,8 406:22 394:4,8 406:22 385:47:23 57:7 38:16,19,23 394:7,11,21 38:16,19,23 394:7,11,21 38:5 47:23 57:7 38:16,19,23 <th>_</th> <td>143:18 174:15</td> <td>486:1,10,12,20</td> <td>267:6,7,10</td>	_	143:18 174:15	486:1,10,12,20	267:6,7,10
421:1 sandra 173:2 489:21 503:3 362:6 364:2 sanitary 423:2 248:8 250:15 534:7 366:12,16 satisfary 423:2 248:8 250:15 scanning 8:11 sat 70:1 253:17 259:2,8 6:10 119:22 488:20 521:3 satisfies 458:19 259:18 260:13 120:2,3 121:10 536:1 satisfy 233:10 278:20 283:15 121:15 161:9 scientifically 254:2 278:20 283:15 161:15,17 206:21 245:7 254:2 285:15 286:1 228:18,19 206:21 245:7 254:20 260:1 228:18,19 262:8 361:11 286:24 288:11 289:22 293:20 322:12,15,21 262:8 361:11 352:8 358:10 359:13,14,17 359:18 363:3 19:21 414:14 359:18 363:3 359:18 363:3 25:2 26:3 190:8 38:16,19,23 359:13,23 232:22 389:2,2,3,3 394:4,8 406:22 439:13 473:1 38:16,19,23 286:8 287:13 394:4,8 406:22 439:13 473:1 275:22 276:15 398:3 4:9 378:16 404:14 444:2 426:3 438:6,7 78:11 80:4 58ean 520:		175:2,19 176:4	487:1,8,9 489:8	268:11 310:12
sandra 173:2 232:3 246:1,15 534:7 366:12,16 sanitary 423:2 447:6 248:8 250:15 scanning 8:11 sat 70:1 253:17 259:2,8 cildkraut 428:3 435:5 satisfies 458:19 259:18 260:13 120:2,3 121:10 536:1 satisfy 233:10 273:17 276:9 121:15 161:9 536:1 save 538:8 285:15 286:1 170:2,16 254:20 260:1 saw 99:1 286:24 288:11 289:22 293:20 322:12,15,21 scientists 148:2 247:19 489:23 359:13,14,17 359:18 363:3 359:18 363:3 25:2 26:3 190:8 191:1 277:2 scope 263:2 saying 136:19 366:15 388:22 394:4,8 406:22 499:1 410:24 409:1 410:24 422:14,19 423:12 424:3 423:12 424:3 426:3 438:6,7 431:10,21 426:3 438:6,7 411:17,21 426:3 438:6,7 411:17,21 426:3 438:6,7 404:16 413:21 426:3 438:6,7 421:14 444:2,2 421:14 444:2,2 423:22 201:16		181:5 196:6,21	489:21 503:3	362:6 364:2
sanitary 423:2 447:6 248:8 250:15 250:18 253:2 scanning 8:11 schildkraut 382:16 418:18 428:3 435:5 488:20 521:3 sat 70:1 satisfies 458:19 259:18 260:13 259:18 260:13 259:18 260:13 273:17 276:9 278:20 283:15 285:15 286:1 285:15 286:1 285:15 286:1 286:24 288:11 289:22 293:20 322:12,15,21 289:22 293:20 322:12,15,21 289:22 293:20 322:12,15,21 289:22 293:20 322:12,15,21 289:22 293:20 359:13,14,17 359:18 363:3 359:18 363:3 359:18 363:3 359:18 363:3 359:18 363:3 359:18 363:3 359:18 363:3 359:18 363:3 359:18 363:3 359:18 363:3 365:18 369:19 386:15 388:22 286:8 287:13 287:17 288:16 319:8 336:13 348:9 378:16 404:16 413:21 3248:9 378:16 404:16 413:21 248:8 250:15 26:11 248:18 428:3 435:5 488:20 521:3 536:1 382:16 418:18 428:3 435:5 488:20 521:3 536:1 382:16 418:18 428:3 435:5 488:20 521:3 536:1 536:1	-	232:3 246:1,15	534:7	366:12,16
447:6 250:18 253:2 schildkraut 428:3 435:5 sat 70:1 253:17 259:2,8 6:10 119:22 488:20 521:3 satisfies 458:19 259:18 260:13 120:2,3 121:10 536:1 satisfy 233:10 278:20 283:15 161:15,17 206:21 245:7 254:2 285:15 286:1 170:2,16 254:20 260:1 saw 99:1 286:24 288:11 228:18,19 scientists 148:2 284:14 389:16 329:14 339:10 322:12,15,21 schildkraut's 433:8,9 457:2 359:13,14,17 school 16:15 scope 263:2 477:19 489:23 359:18 363:3 25:2 26:3 190:8 screening 7:11 38aying 136:19 365:18 369:19 191:1 277:2 38:16,19,23 389:2,2,3,3 394:4,8 406:22 439:13 473:1 39:4,7,11,21 287:17 288:16 409:1 410:24 422:14,19 423:12 424:3 426:3 438:6,7 439:13 473:1 426:3 438:6,7 426:3 438:6,7 426:3 438:6,7 421:10.21 421:16 222:4 235:9 23		248:8 250:15	scanning 8:11	382:16 418:18
sat 70:1 253:17 259:2,8 6:10 119:22 488:20 521:3 satisfies 458:19 259:18 260:13 120:2,3 121:10 536:1 satisfy 233:10 273:17 276:9 121:15 161:9 scientifically 254:2 285:15 286:1 170:2,16 254:20 260:1 saw 99:1 286:24 288:11 288:22 293:20 322:12,15,21 scientists 148:2 284:14 389:16 329:14 339:10 352:8 358:10 352:8 358:10 359:13,14,17 school 16:15 scope 263:2 477:19 489:23 359:18 363:3 25:2 26:3 190:8 school 16:15 scope 263:2 530:23 534:3 365:18 369:19 386:15 388:22 schools 441:57:2 39:4,7,11,21 231:23 232:22 389:2,2,3,3 394:4,8 406:22 439:13 473:1 39:4,7,11,21 39:4,7,11,21 286:8 287:13 409:1 410:24 422:14,19 38:5 47:23 57:7 42:10:18 42:14,19 38:5 47:23 57:7 42:11,21 42:12,2 404:16 413:21 426:3 438:6,7 441:14 444:2.2 19:17,21 441:14 444:2.2 42:23 201:16 223:24 235:9.23		250:18 253:2	schildkraut	428:3 435:5
satisfies 458:19 259:18 260:13 120:2,3 121:10 536:1 satisfy 233:10 273:17 276:9 121:15 161:9 scientifically 254:2 285:15 286:1 170:2,16 254:20 260:1 saw 99:1 286:24 288:11 289:22 293:20 322:12,15,21 scientists 148:2 284:14 389:16 359:13,14,17 schildkraut's 19:21 414:14 scope 263:2 477:19 489:23 359:18 363:3 359:18 363:3 25:2 26:3 190:8 screening 7:11 saying 136:19 386:15 388:22 schools 441:5,7 science 365:8 289:2,2,3,3 394:4,8 406:22 439:13 473:1 39:4,7,11,21 39:4,7,11,21 348:9 378:16 404:16 413:21 423:12 424:3 426:3 438:6,7 423:12 424:3 78:11 80:4 search 46:12,15 401:14 444:22 426:3 438:6,7 191:17,21 search 46:12,15		253:17 259:2,8	6:10 119:22	488:20 521:3
satisfy 233:10 273:17 276:9 121:15 161:9 scientifically 254:2 278:20 283:15 161:15,17 206:21 245:7 258:8 286:24 288:11 228:18,19 254:20 260:1 155:20 196:17 289:22 293:20 322:12,15,21 326:28 361:11 284:14 389:16 329:14 339:10 322:12,15,21 326:28 361:11 433:8,9 457:2 359:13,14,17 359:18 363:3 359:18 363:3 359:18 363:3 530:23 534:3 359:18 363:3 25:2 26:3 190:8 365:18 369:19 386:15 388:22 365:18 369:19 386:15 388:22 394:4,8 406:22 394:4,8 406:22 439:13 473:1 40:1,5 41:16 275:22 276:15 319:8 336:13 348:9 378:16 40:1,14 444:2 2 38:5 47:23 57:7 41:14 444:2 2 38:5 47:23 57:7 39:4,7,11,21 36:18		259:18 260:13	120:2,3 121:10	536:1
254:2 save 538:8 saw 99:1 155:20 196:17 284:14 389:16 433:8,9 457:2 477:19 489:23 530:23 534:3 saying 136:19 154:4 168:19 231:23 232:22 286:8 287:13 287:17 288:16 319:8 336:13 348:9 378:16 404:16 413:21 286:24 288:11 289:22 293:20 322:12,15,21 329:14 339:10 329:14 339:10 329:14 339:10 329:14 339:10 329:14 339:10 329:14 339:10 329:14 339:10 329:14 339:10 329:14 339:10 329:14 339:10 329:14 339:10 329:14 339:10 329:14 339:10 329:14 339:10 329:14 339:10 352:8 358:10 319:21 414:14 359:18 363:3 365:18 369:19 386:15 388:22 389:2,2,3,3 394:4,8 406:22 409:1 410:24 422:14,19 423:12 424:3 426:3 438:6,7 441:14 444:2 2 421:14 444:2 2 421:14 444:2 2 422:14,19 423:12 424:3 426:3 438:6,7 441:14 444:2 2 422:14,19 423:12 424:3 426:3 438:6,7 441:14 444:2 2 422:14,19 423:12 424:3 426:3 438:6,7 441:14 444:2 2 422:4 23 441:14 444:2 2 422:4 23 441:14 444:2 2 422:4 23 441:14 444:2 2 422:4 23 441:14 444:2 2 422:4 23 441:14 444:2 2 422:4 23 441:14 444:2 2 422:4 23 441:14 444:2 2 422:4 23 441:14 444:2 2 422:4 23 441:14 444:2 2 422:4 33 441:14 444:2 2 422:4 23 441:14 444:2 2 422:4 23 441:14 444:2 2 422:4 23 441:14 444:2 2 422:4 23 441:14 444:2 2 422:4 23 441:14 444:2 2 422:4 23 441:14 444:2 2 422:4 23 441:14 444:2 2 422:4 343:20 422:4 233:20 423:4 28:18,19 228:18,19 2262:8 361:11 411:7 411:7 411:7 411:7 411:7 411:7 411:7 411:7 411:7 411:7 411:7 412:4 44:14 41:12 411:7 411:14 411:14 411:14 4		273:17 276:9	121:15 161:9	scientifically
save 538:8 285:15 286:1 170:2,16 254:20 260:1 saw 99:1 289:22 293:20 322:12,15,21 262:8 361:11 284:14 389:16 329:14 339:10 329:14 339:10 329:14 339:10 433:8,9 457:2 359:13,14,17 359:13,14,17 359:13,14,17 359:13,14,17 359:13,14,17 359:13,14,17 359:18 363:3 359:18 363:3 25:2 26:3 190:8 38:16,19,23 saying 136:19 386:15 388:22 386:15 388:22 389:2,2,3,3 39:4,7,11,21 39:4,7,11,21 286:8 287:13 394:4,8 406:22 439:13 473:1 275:22 276:15 40:1,5 41:16 319:8 336:13 348:9 378:16 422:14,19 38:5 47:23 57:7 423:12 424:3 426:3 438:6,7 191:17,21 38arch 46:12,15 404:16 413:21 426:3 438:6,7 191:17,21 323:4 235:9 23	_	278:20 283:15	161:15,17	206:21 245:7
saw 99:1 286:24 288:11 228:18,19 scientists 148:2 155:20 196:17 289:22 293:20 322:12,15,21 262:8 361:11 284:14 389:16 329:14 339:10 352:8 358:10 411:7 352:8 358:10 359:13,14,17 schildkraut's scope 263:2 477:19 489:23 359:18 363:3 25:2 26:3 190:8 screening 7:11 389:18 363:3 365:18 369:19 386:15 388:22 389:2,2,3,3 39:4,7,11,21 286:8 287:13 394:4,8 406:22 409:1 410:24 422:14,19 423:12 424:3 423:12 424:3 423:12 424:3 423:12 424:3 426:3 438:6,7 411:14 444:2 2 78:11 80:4 522:2 201:16 522:2 276:15 522:2 276:15 322:12,15,21 322:12,15,21 322:12,15,21 322:12,15,21 322:12,15,21 411:17 524:4 525:2 26:3 190:8 526:8 361:11 411:7 526:8 361:11 526:4 52:2 46:3 190:8 52:2 26:3 190:8 52:2 26:3 190:8 52:2 26:3 190:8 52:2 26:3 190:8 52:2 26:3 190:8 52:2 26:3 190:8 52:2 26:3 190:8 52:2 26:3 190:8 52:2 26:3 190:8 52:2 26:3 190:8 52:2 26:3 190:8 52:2 26:3 190:8 52:2 26:3 190:8		285:15 286:1	170:2,16	254:20 260:1
289:22 293:20 329:14 339:10 329:14 339:10 329:14 339:10 352:8 358:10 359:13,14,17 359:18 363:3 365:18 369:19 154:4 168:19 231:23 232:22 286:8 287:13 287:17 288:16 319:8 336:13 348:9 378:16 404:16 413:21 289:22 293:20 322:12,15,21 329:14 339:10 329:14 14:14 341:7 38:16,13 41:17 38:16,13 41:17 38:16,13 41:17 38:16,19 39:4,7,11,21 40:15 40:15,7 39:4,7,11,21 40:15 40:14,14,14,14,14,14,14,14,14,14,14,14,14,1		286:24 288:11	228:18,19	scientists 148:2
284:14 389:16 329:14 339:10 schildkraut's 411:7 433:8,9 457:2 352:8 358:10 359:13,14,17 school 16:15 477:19 489:23 359:18 363:3 25:2 26:3 190:8 screening 7:11 530:23 534:3 365:18 369:19 365:18 369:19 386:15 388:22 386:15 388:22 39:4,7,11,21 231:23 232:22 389:2,2,3,3 science 365:8 40:1,5 41:16 287:17 288:16 394:4,8 406:22 439:13 473:1 275:22 276:15 319:8 336:13 422:14,19 38:5 47:23 57:7 se 431:20 348:9 378:16 426:3 438:6,7 191:17,21 sean 520:7 404:16 413:21 426:3 438:6,7 191:17,21 192:22 201:16 222:4 235:9 23		289:22 293:20	322:12,15,21	262:8 361:11
433:8,9 457:2 352:8 358:10 119:21 414:14 scope 263:2 477:19 489:23 359:13,14,17 school 16:15 scott 61:17 62:4 530:23 534:3 359:18 363:3 25:2 26:3 190:8 screening 7:11 386:15 388:22 386:15 388:22 389:2,2,3,3 39:4,7,11,21 286:8 287:13 394:4,8 406:22 439:13 473:1 275:22 276:15 319:8 336:13 409:1 410:24 38:5 47:23 57:7 sean 520:7 404:16 413:21 426:3 438:6,7 191:17,21 search 46:12,15 441:14 444:2 2 192:22 201:16 222:4 235:9 23		329:14 339:10	schildkraut's	411:7
477:19 489:23 359:13,14,17 school 16:15 scott 61:17 62:4 530:23 534:3 359:18 363:3 25:2 26:3 190:8 screening 7:11 384:19 231:23 232:22 386:15 388:22 389:2,2,3,3 39:4,7,11,21 286:8 287:13 287:17 288:16 319:8 336:13 348:9 378:16 404:16 413:21 409:1 410:24 42:14,19 42:22 423:12 424:3 424:3 426:3 438:6,7 441:14 444:2 2 426:3 438:6,7 441:14 444:2 2 421:14 444:2 2 421:17,21 444:2 2 422:4 235:9 23		352:8 358:10	119:21 414:14	scope 263:2
530:23 534:3 359:18 363:3 25:2 26:3 190:8 screening 7:11 saying 136:19 365:18 369:19 386:15 388:22 389:2,2,3,3 39:4,7,11,21 231:23 232:22 389:2,2,3,3 394:4,8 406:22 439:13 473:1 275:22 276:15 287:17 288:16 409:1 410:24 422:14,19 38:5 47:23 57:7 sean 520:7 348:9 378:16 426:3 438:6,7 191:17,21 search 46:12,15 404:16 413:21 426:3 438:6,7 192:22 201:16 222:4 235:9 23	· ·	359:13,14,17	school 16:15	scott 61:17 62:4
saying 136:19 154:4 168:19 386:15 388:22 231:23 232:22 389:2,2,3,3 286:8 287:13 394:4,8 406:22 287:17 288:16 409:1 410:24 319:8 336:13 422:14,19 404:16 413:21 426:3 438:6,7 404:14 444:2 2 410:18 322:4 235:9 23		359:18 363:3	25:2 26:3 190:8	screening 7:11
386:15 388:22 386:15 388:22 39:4,7,11,21 389:2,2,3,3 394:4,8 406:22 439:13 473:1 275:22 276:15 287:17 288:16 409:1 410:24 42:14,19 38:5 47:23 57:7 43:120 398:2,2,3,3 394:4,8 406:22 439:13 473:1 275:22 276:15 409:1 410:24 42:14,19 38:5 47:23 57:7 43:20 398:2,2,3,3 394:4,8 406:22 439:13 473:1 410:18 319:8 336:13 422:14,19 38:5 47:23 57:7 43:20 38:5 47:23 57:7 423:12 424:3 426:3 438:6,7 191:17,21 192:22 201:16 222:4 235:9 23		365:18 369:19	191:1 277:2	38:16,19,23
231:23 232:22 389:2,2,3,3 science 365:8 40:1,5 41:16 286:8 287:13 394:4,8 406:22 439:13 473:1 275:22 276:15 287:17 288:16 409:1 410:24 scientific 34:2 410:18 319:8 336:13 422:14,19 38:5 47:23 57:7 se 431:20 404:16 413:21 426:3 438:6,7 191:17,21 search 46:12,15 404:14 444:2 2 192:22 201:16 222:4 235:0 23	• •	386:15 388:22	schools 441:5,7	39:4,7,11,21
286:8 287:13 287:17 288:16 319:8 336:13 348:9 378:16 404:16 413:21 394:4,8 406:22 409:1 410:24 422:14,19 423:12 424:3 426:3 438:6,7 411:14 444:2 2 394:4,8 406:22 439:13 473:1 38:5 47:23 57:7 78:11 80:4 191:17,21 192:22 201:16 275:22 276:15 410:18 sean 520:7 search 46:12,15		389:2,2,3,3	science 365:8	40:1,5 41:16
287:17 288:16 319:8 336:13 348:9 378:16 404:16 413:21 409:1 410:24 422:14,19 423:12 424:3 426:3 438:6,7 411:14 444:2 2 410:18 38:5 47:23 57:7 78:11 80:4 191:17,21 192:22 201:16 222:4 235:9 23		394:4,8 406:22	439:13 473:1	275:22 276:15
319:8 336:13 348:9 378:16 404:16 413:21 422:14,19 423:12 424:3 426:3 438:6,7 441:14 444:2 2 38:5 47:23 57:7 se 431:20 sean 520:7 search 46:12,15		409:1 410:24	scientific 34:2	410:18
348:9 378:16 404:16 413:21		422:14,19	38:5 47:23 57:7	se 431:20
404:16 413:21		423:12 424:3	78:11 80:4	sean 520:7
$-441\cdot144444\cdot22 - 102\cdot22201\cdot16 - 222\cdot4235\cdot023 - 102\cdot22201\cdot16$		426:3 438:6,7	191:17,21	search 46:12,15
		441:14 444:2,2	192:22 201:16	222:4 235:9,23
444:4 447:1 206:5 207:10 236:14 360:8	T13,23 T/3,17	444:4 447:1	206:5 207:10	236:14 360:8

[search - seems] Page 88

Г	1		1
414:17 503:17	242:24 255:5	164:9,21	401:8 403:23
second 61:5	256:1,3 271:3	167:13,16	408:20 409:22
124:14 126:19	273:3,12	169:19 170:6	410:17,24
142:13 143:5	278:17,24	171:18 176:24	411:9 423:17
153:8 164:16	279:21 286:8	188:17 189:2	424:8 425:3,19
175:2 179:16	288:7 317:1	194:10 195:5	431:23 433:6
182:4 189:3	323:4 326:5	196:6,20,24	442:2 444:1
195:10 214:6	329:11 335:19	197:2 199:2	447:7 448:17
246:10 255:11	336:21 337:14	200:8 229:20	450:6,17
273:17 274:3	338:7 349:2,4	231:6 234:2	454:14 457:1,6
279:22 284:2	350:11,22	236:4 241:8,9	458:24 461:10
285:10 323:7	352:20 357:4	241:10 243:13	462:10 463:18
339:10 343:1	369:5 379:15	246:10 249:24	468:14,20
353:14 363:10	399:24 400:4	250:4 251:13	469:8 470:9
371:4 385:15	400:16,19	252:16 253:1,7	475:4,6,11
406:11 422:14	404:15 405:9	253:14 258:5	477:17 478:2
491:21 501:19	406:10 415:22	261:2 270:10	483:8 485:2,14
501:20 520:8	427:15 458:15	271:5 273:4	486:8 487:6
secondly	460:6 468:21	280:16 281:4	494:23 495:11
423:12	481:19 484:16	282:17 283:8	496:14 497:23
section 83:23	501:15 508:20	286:24 287:5	498:3,10,15,20
84:1,2 100:13	sections 77:24	287:21 288:10	498:21 499:2,5
101:1 106:16	78:1,2,5,6,16	298:1,8 311:2	503:13 508:4
108:24 109:1,9	78:18,19,22	319:3,21 322:3	509:16 512:17
110:7,18,19	see 20:20 43:24	323:13 327:2	515:13 518:16
111:6 127:22	61:6 70:3 74:19	328:10,21,22	519:14 521:15
129:23 130:4	77:16 81:12	331:6 332:20	521:20 522:18
131:3 133:15	83:9 84:14 85:2	333:1,3 339:8	524:19 527:9
134:1,6,9 135:8	85:4 95:14,18	342:19 344:15	531:18 532:2,6
135:15,20	98:23 101:8	345:2,5 348:7	seeing 365:18
155:3 163:3,6	109:2 113:11	348:18 349:4	406:3
163:20 165:14	120:20 126:1,7	352:13 357:13	seek 535:8
171:16,18,20	126:8,9 127:15	366:1 367:16	seeking 250:6
172:7 182:2	139:14 147:14	367:16 373:8	250:10
188:15,19,22	148:3 162:24	374:12 378:13	seems 86:5,6
230:17 231:18	163:18,23	388:16 400:11	144:21 157:17

[seems - share] Page 89

224.17.241.7	427.22	gantamban	50.20 66.22
234:17 341:7	427:22	september	59:20 66:22
368:7 371:19	sent 201:3,4	43:23 45:5	67:14 70:22
476:6	513:2	55:20 56:22	71:2 90:5
seen 61:8 76:19	sentence 85:5	series 6:24	252:10 269:3,8
94:8,23 102:7	86:5,8,9 95:12	120:19 236:2	329:9 380:12
185:1 196:14	95:14 96:12	478:9	381:6,10
196:16 200:11	110:23 112:24	serious 407:11	465:22 529:13
216:12 223:12	128:2 131:11	serous 6:21	session 5:4 56:3
223:13 240:14	143:13 155:13	141:18 142:1,8	218:1
241:5 249:9	182:4 232:8	142:9 143:8,20	sessions 78:4
302:14 335:24	259:14 275:4	144:1,5,10,12	set 17:3 99:5
365:22 366:3	279:11,23	144:15 145:2	120:14 121:8
422:11 474:4	281:20 283:15	155:6 183:9	160:8 190:2
530:24	283:24 290:5	295:4,18,23	192:11 213:3
selected 118:8	291:17 293:20	297:13 299:5	213:15,23
261:12,12	294:6 321:15	299:17 300:2	215:4 224:23
selecting	323:8 339:10	301:2,3 302:7	229:10 231:4
518:22	363:10 364:16	302:22 303:22	234:8 309:17
selection	374:19 401:15	304:5 325:22	311:10 363:24
182:11 258:13	401:16 406:2,6	326:1	530:16 539:10
281:16 314:17	406:11,12,22	serve 28:13	sets 230:18
324:21 442:6	407:9 409:1	29:17 58:10	setting 311:13
505:10	431:15 501:20	65:23 67:16	seven 53:6
selective 236:6	524:12,17,19	71:12 72:4,13	several 50:2,14
selectively	sentences	72:15 73:8,14	130:7 258:10
255:15 375:20	132:15,16	130:24 131:1	258:19 291:7
467:7 511:19	133:3 274:16	served 36:1,12	295:2 360:22
511:20	275:5,17	65:1 68:14	451:3 454:16
self 369:10	285:15 339:21	265:10 266:18	502:1 535:14
sem 352:9	406:21	266:20	severe 424:4
356:17	separate 16:17	serves 70:6	505:10
seminal 80:15	20:16 77:2	196:10	sgao 395:13
seminar 310:21	78:18 144:24	serving 43:18	sgo 395:14,15
sense 15:1	510:6 522:16	44:11 45:1 56:7	395:16 396:21
173:9 187:11	separation 47:8	56:11 57:3 58:1	share 229:3
188:6 373:4	522:20,23	58:2,5,12,22	497:17

[shared - single]

Page 90

			9
shared 192:4	353:20 371:24	224:13 226:18	312:2,4 313:23
192:11 306:15	373:14 420:14	300:19 322:13	314:21 315:10
shb.com 4:21	429:20 438:14	322:19 331:9	315:13 348:12
sheet 537:1	443:18 453:24	368:6 378:23	361:20 362:24
538:11	467:6 477:1,4	400:21 416:2	363:21 364:23
shift 293:7	481:3,3,17,19	478:7 485:10	366:8,21 378:1
shifting 280:17	490:10 493:18	490:7	378:10,18
300:11	497:20 532:12	shows 94:13	388:3 432:23
shook 4:16	showed 33:6	111:9 118:9	476:23
short 44:8 86:7	259:22,23	187:19 312:16	significant
91:3 122:23	325:18 327:9	323:18 352:15	126:7,9 165:1
135:15 154:13	334:19 337:21	353:5	165:12 168:7,9
154:13 218:9	352:10 369:16	shut 66:17	185:16 280:10
355:8 407:3	443:4,14,15	shutdown	301:4 302:8
492:4	444:18 468:11	66:10	303:3,5 312:13
shortcomings	470:7	side 67:8 86:20	313:18 324:4
253:3	shower 81:10	86:21 196:6	324:12 325:23
shoulder	81:10 226:5,5	330:15 381:24	327:10 328:1
421:17	226:11,11,22	383:24 438:7	348:5 361:11
show 60:19	226:23 507:17	438:16 444:17	363:17 369:10
79:4 83:11	507:17,18,18	445:21 449:6	374:23 375:5
87:22,24 94:2	508:3,3 509:3,3	449:24 478:5	457:16 503:23
102:10 104:4,8	showing 120:15	483:9 510:24	silkraut 228:17
112:7 120:22	121:14 142:22	siemiatycki	similar 229:15
123:11,23	172:23 187:6	69:7	311:8 390:12
124:1,6 137:19	206:6 312:22	sign 61:12	512:6,9
138:7 142:19	364:13 391:18	signals 441:23	simple 494:12
144:21 161:16	392:9 404:5	442:10	simply 268:22
165:22 169:10	497:1	signatories	280:12 385:2
186:10,17	shown 44:24	362:17	505:14,19
227:4 248:15	55:12 66:1	signature 74:18	506:3 507:10
248:22 260:1	116:21 137:21	536:16 539:20	526:11 529:3
280:1 287:24	138:8,10	signed 100:3	singh 69:17
287:24 301:11	157:16 158:5	538:15	single 117:9
313:5,8 323:23	201:17 206:2	significance	150:3 258:11
326:13 332:14	208:1 222:21	8:15 280:13	349:7,19
	College To		

[sir - specific] Page 91

	I	I	I
sir 39:14 95:5	sized 129:6	154:21 248:8	372:13,17
100:19 109:11	skepticism 84:9	346:7 380:5	379:1,11 383:9
258:3 274:4	85:7,16	440:12	385:12 399:16
524:15	skewed 303:19	somewhat	401:17 403:1
sis 286:5	skipped 132:15	341:8 368:12	403:16 409:22
sister 237:16	slides 91:10,13	sonal 69:17	410:15 420:15
289:15 303:2	slight 101:6,11	sorry 14:12	438:19 449:4,7
324:22 503:22	101:15	20:8 32:18	453:1 454:5
504:2,7	slip 70:18	34:15 38:13	480:4 499:20
sisters 289:14	slow 256:18	45:10,13 51:22	501:19 510:19
sit 24:24,24	slowly 361:10	52:3 55:20	513:5,8 515:14
25:1	small 259:9	58:15,16 59:16	sort 15:7 95:11
site 269:16	286:6 392:2	62:2 74:12 76:5	281:13
531:24	smaller 142:2	77:4 84:1,24,24	sound 363:24
sites 8:10	smith 69:19	100:22 102:9	sounds 34:17
sitting 15:18	519:9 520:13	103:21 116:24	source 197:7
140:15 150:24	smokes 149:9	122:6 125:5,9	207:16 361:12
151:19 207:3	151:7	127:16 142:18	512:10 530:1
211:1,11 215:2	smoking 114:9	162:6,10,13	sources 17:9
215:22 217:2	114:11,15	166:18 177:16	171:24 224:4
244:9 251:16	138:22 151:11	194:4 207:22	316:15 319:24
311:6 390:6	158:20	215:9 222:24	411:1 525:20
situation	social 67:23	223:2,23 246:4	south 3:7
130:13 168:20	68:12 70:5	246:12 247:9	speak 15:4,4
197:12 202:2	socially 68:6,9	260:4,23	189:15 211:14
263:6 373:11	80:8	273:10,11	262:11,24
385:2	societies 192:1	276:10 279:14	263:4 265:22
situations	society 5:20	285:17 286:18	536:5
129:11 131:18	192:18 193:4	289:8 296:13	speaking
187:13 347:15	395:12 436:5	296:24 299:20	211:17,20,23
six 17:2 207:4	444:6	304:7 321:2,14	299:16
208:13 352:16	solely 229:7	326:9 340:16	specific 140:11
356:5,11	soluble 478:6	344:4,5 345:2	141:4 159:16
sizable 447:2	somebody	345:22 346:19	160:10 191:4
size 286:6	151:6,8 153:19	351:13,19	198:6 210:11
375:19	153:21 154:3	353:10 372:10	210:21 311:3

[specific - statement]

Page 92

L. L.	-		\mathcal{L}
323:21 403:17	speculation	standards	449:2 484:23
418:8 509:21	263:14,23	532:10 533:21	state 73:17 81:7
specifically	466:20 469:20	standing	83:5 102:3
37:13 57:5 77:9	speed 256:23	173:22	103:23 115:16
90:20 97:21	257:4	standpoint	116:1 135:22
105:4 108:7	spend 25:8	312:21 327:1	143:4 153:3,4
118:17 121:1	46:11 207:9	stands 100:3	174:22 181:15
128:9,18	spent 19:6	starch 81:15	211:8 323:23
129:16 135:12	26:16,19 55:19	506:21 507:20	350:9 360:19
138:23 139:2	55:24 79:1,5,8	507:21,23	405:13,17
140:20 141:3	80:21 383:19	508:14,17,17	434:18 443:1
144:15 145:15	460:16	start 16:9 45:3	499:18 520:15
146:2 169:20	spoke 91:7	54:22 97:3	stated 93:8
178:7 182:16	spoken 189:20	126:2 136:6	108:7 118:17
193:5 198:7	sponsored	142:6 150:8	121:20 146:3
200:8 220:7	28:13 36:4	159:13 183:22	148:18 169:20
236:5 241:6	436:11 466:17	196:8 205:10	183:6,7 193:11
247:24 250:14	sporadically	212:7 213:20	217:7 223:6
253:14 264:1	86:13	218:19 231:17	253:15 313:22
271:21 322:6	spring 309:24	252:7 282:3	362:14,17
322:19 356:10	spurious	327:7 397:13	387:20 407:22
370:24 387:20	258:15 310:10	403:3 418:6	437:3,4 506:19
387:22 397:10	square 4:6	503:6 512:20	508:5
403:7 414:18	staff 68:12	525:21	statement 8:14
415:22 431:22	stance 533:7	started 22:10	31:16,18,21
433:15 465:20	stand 86:9,11	45:7 99:1	63:3 79:17
476:17 507:20	86:15,17 87:12	221:10 229:2	81:21 82:1,5,8
507:22 508:5	100:1,6 178:4	237:7,12 238:6	82:9 86:3 87:12
508:15,18	277:23	238:9,12	88:4 90:21
510:13 522:19	standard	520:13	93:21 96:1,23
specified	136:12 311:22	starting 63:2	111:13 125:20
215:12 509:3	312:16,22	89:10 172:7	125:21 127:19
specify 508:23	313:1,4,7 318:9	238:2 268:12	128:7,11 129:9
spectrum 29:3	320:15 330:3	412:3 533:3	130:11 131:17
speculate	427:12 534:14	starts 14:7	134:15 136:15
263:16 396:11	534:21	252:13 260:24	140:8 141:15

[statement - strong]

Page 93

144:13 172:16 511:11,23 348:12 361:5 steffen 6:24 173:6,13,15,18 513:23 514:2 361:11,19 194:5,21	
173:6,13,15,18 513:23 514:2 361:11,19 194:5,21	
173:22,23 515:5,9,16,19 362:11,20,23 steffen's 19:	5:15
174:10,12,14 525:1 363:12,18 195:21 197:	19
176:13 178:14 statements 31:3 364:1,19,24 198:14	
179:5 182:12	;
186:22 192:24 86:14 89:2 370:20 371:17 stenographic	
197:4 234:8 97:22 98:2,3 371:24 373:11 539:9	
240:5 247:2,6 108:4 132:10 378:1,10,16,17 step 489:21	
253:24 259:6,8 168:15,18 388:2 404:12 steve 262:3,	5
260:18 282:10 197:17 198:11 404:17,22,23 stick 527:12	,
283:6 284:6 244:14,24 427:7 476:23 sticky 513:6	·
289:5 306:11 277:23 278:2,8 statistically stock 236:3	
306:14 307:24 278:10,24 164:24 165:11 505:11	
308:1 323:9 279:6,9,12,20 185:13,16 stop 370:12	
330:20 334:18 290:23 291:7 280:10 301:4 stopped 380):20
338:24 340:9 291:14 331:2 302:8 303:5 stopping 13	1:7
346:14,20,21 336:6,11 338:1 312:13 313:17 stratified 14	15:5
347:3,6 348:3 338:20 339:18 324:4,12 170:1	
350:21,23 340:9,14 361:8 325:23 327:10 stratify 170	:14
351:3 352:19 365:3 366:19 328:1 363:17 street 2:15 3	3:7
354:20 355:17 370:1 383:6,15 369:9 372:4 3:16 4:7	
355:20 357:8 386:23 388:19 373:1,6 375:5 strength 10	1:19
361:4,7,19 531:13 375:21 440:13 101:23 143:	23
362:19 363:19 states 1:1 101:4 440:15 457:15 229:16 233:	8
364:6 365:10 107:4,13 224:6 473:12 503:23 317:22 364:	9
367:1 369:13 271:7 411:17 statistician 458:21 459:	14
369:15 377:2,6 480:15 525:21 363:14 strengths 38	3:4
377:23 378:21 stating 137:1 statistics 365:1 236:15,22	
381:15 386:8 244:13 281:12 status 338:19 strike 58:21	
386:14 387:18 statistical 8:15 386:20 447:5 67:18 208:7	'
400:13 401:3 163:5 165:6 stay 345:23 226:20 410:	16
404:10 405:7 187:7 280:13 515:14 510:7	
407:15,17 312:2,3 313:23 staying 135:20 strong 102::	5,6
408:11 409:11 314:21 315:10 184:14 102:16 114:	
502:10 511:3 315:13 326:24 206:22 233:	10

Page 94

[strong - study]

225 24 44 5 2	1 = 10 1 50 1 =	220 1 7 2 10 22	700 1 1 7 700 1
337:21 416:3	157:18 160:15	339:15 340:22	502:1,4,5 503:1
stronger	160:16,19,20	341:1,5 344:16	503:1,13 518:5
142:16,24	161:1,1 168:13	350:8 353:20	518:10,23
143:7,19 144:9	169:14 170:13	357:17 358:7	521:10 522:4,8
184:23 281:22	171:22 172:20	358:11,23	522:8,24 523:2
336:3,15,16	172:23 175:3,5	359:19,19	study 6:10,18
408:9 518:17	177:24 178:7	360:1 367:4	10:7 97:5,13,13
strongly 144:16	182:10 188:14	368:5 370:10	104:2 113:4
371:19	212:14,18	385:19 386:10	117:9,24 118:2
student 310:14	219:6,12,19,22	386:22 387:13	118:8,14
students 24:12	220:4,20	388:8,16	119:21 120:6
309:18 310:4	221:17,19	390:10 391:17	120:10,11
310:16	223:19,20	391:20 392:7,9	121:16 122:1,2
studied 309:3	227:17 228:6	399:8 401:11	122:4,8,16,21
364:24 391:16	235:3 236:7,13	401:24 402:16	122:22 123:24
413:6	237:9,14	403:15,21	124:6,6 140:21
studies 6:5 8:10	246:20 254:8	404:5,14,19,24	140:23 145:9
11:2 31:23 33:6	256:5 258:10	405:15 407:2,5	161:6,10,23
33:8,13,15,19	258:19,22,24	408:10,15	166:16,22
34:19 40:12	259:3,5,9 260:1	410:21 411:20	169:24 170:11
47:15,16,21,23	279:16 281:13	412:15 413:6	171:17 175:14
86:1 87:6 98:12	281:15 289:24	413:16 415:1,8	176:6,15,17,20
100:14,16	291:18 300:20	415:19 416:1,6	177:1 179:2,20
102:8 112:3	301:1 302:5,14	418:11 420:3	179:21,22
114:5,21,24	308:3,6 314:23	427:20,20,21	180:2,6 181:4
115:14,15	318:8 319:22	433:2 438:10	182:16,17,19
117:23 121:13	320:4 322:10	438:11 439:10	182:22 183:1
121:24 125:8	322:13,18,21	441:24 442:9	183:21 184:1
125:13 128:3,5	323:12,15,23	442:11,16	185:10 186:9
128:10,18	324:2,6,7,10,11	443:4,8,12,15	186:17 188:15
129:8,13	325:14,18	444:17 446:6	194:4,4 220:7
131:24 140:19	326:4,7,21,24	446:16,19	220:16 228:15
141:2 142:3	327:9,21	447:24 449:14	228:20 237:16
144:2 145:10	328:13,14	475:7,9,23	252:18,23
145:14 147:5,8	330:1,2 336:3,9	476:4 490:16	253:2,5,11
147:18 157:16	338:11,15	499:22 501:21	258:11,11

[study - suggest] Page 95

342:3 343:15	studying 24:5,6	284:17 287:14
343:17 344:1	stuff 432:15	288:12,17
347:17 349:7,8	subcontract	293:20 294:9
349:19,23	25:19 265:7	294:12
350:5,13,17	subgroup	substances
352:15 354:21	375:15	11:13 431:21
355:19 367:8	subgroups	431:21 483:15
367:13,14,16	375:1,3	substantial
368:13,17,22	subject 29:6,18	172:21 354:8
373:24 378:2	128:6 157:13	412:12
389:10 392:3	160:15 161:1,2	substantially
392:14 397:2,6	179:13 180:17	367:22 407:24
397:8 402:2,13	218:16,21	410:3 495:12
403:18 404:24	219:1 293:17	substantive
406:19 408:6	391:12 406:24	344:9,13 347:1
410:7,19,23	subjective	subtype 7:20
411:11 415:16	317:11,17	23:19 141:5
418:10 420:14	subjects 442:7	142:17 143:8
425:8 430:6,7	submission	143:20 144:9
432:24 434:15	66:6,9	144:21
434:18 441:20	submit 39:20	subtypes 140:5
441:22 442:15	submitted	140:12 141:2
444:19,24	39:17 49:18	142:1 143:24
456:18 472:4	50:11 55:17	144:4,13
474:11 475:15	59:12 74:21	227:23 334:17
476:3 496:4	197:1 251:1,6	successful
500:9 503:22	256:14	511:16
503:22 504:3,7	subsequent	suffer 128:3,23
504:18 505:5	126:4 438:23	sufficient 96:18
506:10,13,18	477:2 479:17	228:11,12
507:3,9 508:1	504:10,15	331:18 442:12
509:10 510:12	subsequently	443:9
519:2 521:16	466:12	suggest 93:9
523:16 524:13	subset 280:22	95:22 99:13
study's 370:14	281:5 283:16	106:20 121:22
	283:18 284:14	134:20 144:18
	343:17 344:1 347:17 349:7,8 349:19,23 350:5,13,17 352:15 354:21 355:19 367:8 367:13,14,16 368:13,17,22 373:24 378:2 389:10 392:3 392:14 397:2,6 397:8 402:2,13 403:18 404:24 406:19 408:6 410:7,19,23 411:11 415:16 418:10 420:14 425:8 430:6,7 432:24 434:15 434:18 441:20 441:22 442:15 444:19,24 456:18 472:4 474:11 475:15 476:3 496:4 500:9 503:22 503:22 504:3,7 504:18 505:5 506:10,13,18 507:3,9 508:1 509:10 510:12 519:2 521:16 523:16 524:13	343:17 344:1 stuff 432:15 347:17 349:7,8 25:19 265:7 350:5,13,17 352:15 354:21 355:19 367:8 375:15 368:13,17,22 373:24 378:2 389:10 392:3 392:14 397:2,6 397:8 402:2,13 160:15 161:1,2 403:18 404:24 219:1 293:17 406:19 408:6 391:12 406:24 411:11 415:16 391:12 406:24 411:11 415:16 317:11,17 432:24 434:15 39:17 49:18 434:18 441:20 39:17 49:18 444:19,24 39:17 49:18 456:18 472:4 50:11 55:17 476:3 496:4 50:12 55:17 503:22 504:3,7 504:18 505:5 506:10,13,18 256:14 507:3,9 508:1 509:10 510:12 509:10 510:12 509:10 510:12 510:25 504:10,15 509:10 510:12 509:12 521:16 523:16 524:13 505:22 523:16 524:13 505:22 523:16 524:13 505:22 523:16 524:13 505:22 523:16 524:13 505:22 523:16 524:

[suggest - systematically]

Page 96

[,	,		
227:14 354:9	155:3 231:16	32:21 52:23	surprised 29:10
356:7 403:14	271:2,4,8	58:18 61:11	325:12 328:9
443:11,11	272:13 292:10	62:19 72:22	415:7
506:1	292:13 304:12	84:15 91:12	surrounding
suggested	323:4 337:8	95:6 101:22	401:1 402:6
246:17 253:22	365:14,18	103:1 112:10	403:9
254:8,11	366:7 438:3,4	136:18 156:18	susceptibility
302:17 357:22	439:22 450:19	204:10 208:21	423:16
507:16	451:18 461:1,2	217:1 224:22	susceptibles
suggesting	461:6 483:10	225:17 226:8	325:4 505:6
166:10 224:16	483:11 493:7	244:19 245:1	suspect 389:23
375:15 376:8	513:17 514:7	247:8 249:8,18	swear 359:5
376:16 388:9	514:22 515:5	257:6 259:24	swedish 265:4
388:10 476:9	516:17 525:15	268:1 288:3	sworn 12:5
suggestion	534:11	292:24 295:14	218:5 539:6
347:9 495:4	summation	299:22 329:23	symposia
suggests 132:3	437:11	331:4 340:8,16	192:12
144:20 206:8	supplemental	343:11 344:18	symptoms
290:16 400:21	286:3	345:20 351:6	265:8
503:18	support 251:14	354:14 355:6	syndrome
suite 2:16 3:7	253:21 254:7	365:4 383:12	156:13 157:6
3:16 4:7	254:10 256:14	384:22,24	158:7 173:5
summaries	279:17 290:1	394:21,23	synthesize
531:10	291:19 339:6	397:13 404:21	427:5
summarize	361:8 487:16	405:5 406:5	system 402:22
435:13 504:6	487:24 496:8,9	413:4,22 422:1	426:16
summarized	534:20 535:17	423:23 426:13	systematic 7:16
97:17 137:18	supported	470:20 485:4,5	9:4 286:4 319:2
summarizing	356:11 411:2	498:4 519:4	319:11,15,19
366:10	supports	520:6 526:22	397:23 399:5
summary 6:3	385:18 425:1	528:7 536:9	399:18 402:12
78:12 93:9 99:8	488:2 496:12	surgery 356:6	402:15,18,23
99:9 105:10,19	suppose 347:13	356:18	402:23 403:14
105:22 106:2,6	supposed 362:2	surgical 356:8	403:20 404:1
107:21 135:22	sure 13:21 14:6	surgically	systematically
142:13,20	14:9 27:8,17,21	356:13	404:7

Document 33008-56 PageID: 211446

[t - talc] Page 97

t	295:10 300:21	130:10,15,16	227:19 228:2,8
t 397:3	301:10 327:4	132:2,5 134:11	230:5 234:16
table 123:13	334:22 335:11	134:12 135:1	236:5 237:9,14
125:22 164:11	335:12 339:20	135:11,24	238:1 241:18
164:12,12	344:19,22	136:9,21 137:7	242:5 243:5,18
286:3 287:8	355:7 356:2	137:20 138:11	245:14,19
297:8 345:5,14	365:15 366:3	139:8 140:3	246:1,19
347:20 450:11	367:18 491:4	142:5,7,14	250:16 251:7
450:12 455:18	492:22 496:16	143:5,16 145:7	256:6,9 258:15
475:5 497:19	taken 98:1	145:20 146:5	259:10 260:15
497:21 498:1,8	113:11 217:17	146:13 148:12	261:7 262:20
498:9 499:6,7	229:24 389:23	150:3,21 151:9	263:10 277:13
509:16 521:5,7	538:6 539:9	153:12,15	277:23 278:4
523:18,22	takes 492:15	154:21 155:10	278:11,17
524:3	493:2	159:16 163:12	279:1,18 290:2
tables 164:10	talc 5:18,23 6:1	169:24 171:21	290:13,24
taher 9:8,13	6:5,15,18,23,23	172:2,8,13	291:15,20
122:2,8,16	7:1,21 8:8 9:7	173:10 174:6	292:11 297:12
238:8 397:2,5,7	9:12 10:4,10,12	174:24 175:10	300:20 306:6
397:21 398:7	10:15,18,21	176:8,11,21	307:2,5,9,15
398:13,23	11:2,4 38:16,23	181:7 182:6,18	308:9,12,15
399:19,20	39:12 43:10	182:20 183:1	309:11,12
403:17 404:9	81:20 82:16	184:2,20,21,24	310:12,20
410:19 496:17	83:6 84:12	185:6,8 186:10	311:9 320:4
take 43:8 78:5,6	85:12 86:1 87:3	186:18,24	321:24 323:11
93:3 110:8	87:5 88:8,16,17	188:23 189:12	323:17,24
126:2,12	89:12,15,20	192:5,19,24	324:10,12
133:18 139:15	90:1,9 91:4,16	193:5,12	325:18 327:11
163:15 164:17	91:23 93:10	200:10,11	329:18 331:21
169:2 185:18	96:17 98:12	201:17,21,21	347:9 349:7
186:20 195:10	99:14 100:14	202:23,24	350:6,13,18,23
198:24 247:7	102:5,15	205:14 207:18	352:10,16
255:8 257:5	104:15 106:21	207:24 208:1,5	353:6,17,19,20
	107:9 113:8	208:10 215:12	354:9 356:4,7
278:5 279:2,23	115:21 125:7	220:20 223:7,9	356:12,16,20
292:20,22	125:12 127:13	223:15 226:14	357:10,17,19
			, ,

[talc - talked] Page 98

357:24 358:1,8 478:6,10 480:7 197:17 198:11 294:15 304:12 360:2,13 381:7 480:19,21 198:12 201:8 326:5 340:21 382:2 383:17 481:12,24 203:17,23 357:17,21 384:1 389:19 485:9,10,12,17 204:19 205:3 360:1 366:20 389:21,22 485:18 487:17 209:11,14,17 368:13 369:2 390:17 391:15 488:4,12,12 209:19,22 430:19 432:9 391:19,22,24 489:10,12,23 210:2 212:3,14 435:16 448:14 392:4,10,12 500:11 503:24 219:7 220:16 460:24 478:23 394:12 396:4,8 504:5,10,12,14 227:8 229:12 490:21 491:18 400:8,23 504:19,21,22 230:20 239:23 492:6 518:19 409:7 413:8 505:15 506:4 254:24 263:20 70:17,21 71:1 416:13,16,20 506:14 507:7 277:18 299:18 128:9 138:17 416:23 418:18 511:7,22 512:6 342:18 343:9 248:24 290:19 423:2,13 424:5 524:23 529:14 380:14 382:10 324:17 331:16 424:7,14 425:2 531:14 533:11 382:				
382:2 383:17 481:12,24 203:17,23 357:17,21 384:1 389:19 485:9,10,12,17 204:19 205:3 360:1 366:20 389:21,22 485:18 487:17 209:11,14,17 368:13 369:2 390:17 391:15 488:4,12,12 209:19,22 430:19 432:9 391:19,22,24 489:10,12,23 210:2 212:3,14 435:16 448:14 392:4,10,12 500:11 503:24 219:7 220:16 460:24 478:23 394:12 396:4,8 504:51,0,12,14 227:8 229:12 490:21 491:18 400:8,23 504:19,21,22 230:20 239:23 492:6 518:19 407:20,23 504:23 505:12 244:1 250:7 talked 54:19 409:7 413:8 505:15 506:4 254:24 263:20 70:17,21 71:1 416:13,16,20 507:24 508:16 306:17 307:19 228:15,17,20 416:23 418:18 511:7,22 512:6 342:18 343:9 248:24 290:19 423:2,13 424:5 524:23 529:14 380:14 382:10 324:17 331:16 424:7,14 425:2 531:14 533:11 382:12 384:17 342:17 343:8 431:8,11,20 536:2 390:23 410:9	357:24 358:1,8	478:6,10 480:7	197:17 198:11	294:15 304:12
384:1 389:19 485:9,10,12,17 204:19 205:3 360:1 366:20 389:21,22 485:18 487:17 209:11,14,17 368:13 369:2 390:17 391:15 488:4,12,12 209:19,22 430:19 432:9 391:19,22,24 489:10,12,23 210:2 212:3,14 435:16 448:14 392:4,10,12 500:11 503:24 219:7 220:16 460:24 478:23 394:12 396:4,8 504:5,10,12,14 227:8 229:12 490:21 491:18 400:8,23 504:19,21,22 230:20 239:23 492:6 518:19 409:7 413:8 505:15 506:4 254:24 263:20 70:17,21 71:1 414:1,17,20 506:14 507:7 277:18 299:18 128:9 138:17 415:2,2,20,21 507:10,15,19 300:2 302:6 190:11 191:17 416:23 418:18 511:7,22 512:6 342:18 343:9 248:24 290:19 419:8 422:8,20 518:20 519:16 353:7,21,23 312:1 321:10 423:2,13 424:5 524:23 529:14 380:14 382:10 324:17 343:8 428:4,13 430:8 533:11 535:20 389:14 390:9 368:12 381:16 431:8,11,20 536:2 509:23	360:2,13 381:7	480:19,21	198:12 201:8	326:5 340:21
389:21,22 485:18 487:17 209:11,14,17 368:13 369:2 390:17 391:15 488:4,12,12 209:19,22 430:19 432:9 391:19,22,24 489:10,12,23 210:2 212:3,14 435:16 448:14 392:4,10,12 500:11 503:24 219:7 220:16 460:24 478:23 394:12 396:4,8 504:5,10,12,14 227:8 229:12 490:21 491:18 400:8,23 504:19,21,22 230:20 239:23 492:6 518:19 409:7 413:8 505:15 506:4 254:24 263:20 70:17,21 71:1 414:1,17,20 506:14 507:7 277:18 299:18 128:9 138:17 415:2,2,20,21 507:10,15,19 300:2 302:6 190:11 191:17 416:33 418:18 511:7,22 512:6 342:18 343:9 248:24 290:19 419:8 422:8,20 518:20 519:16 353:7,21,23 312:1 321:10 423:2,13 424:5 524:23 529:14 380:14 382:10 324:17 343:8 424:7,14 425:2 531:14 533:11 382:12 384:17 342:17 343:8 431:8,11,20 536:2 390:23 410:9 391:14 392:20 432:18 433:3 4alcum 1:6 7:14 412:	382:2 383:17	481:12,24	203:17,23	357:17,21
390:17 391:15 488:4,12,12 209:19,22 430:19 432:9 391:19,22,24 489:10,12,23 210:2 212:3,14 435:16 448:14 392:4,10,12 500:11 503:24 219:7 220:16 460:24 478:23 394:12 396:4,8 504:5,10,12,14 227:8 229:12 490:21 491:18 400:8,23 504:19,21,22 230:20 239:23 492:6 518:19 407:20,23 504:23 505:12 244:1 250:7 talked 54:19 409:7 413:8 505:15 506:4 254:24 263:20 70:17,21 71:1 414:1,17,20 506:14 507:7 277:18 299:18 128:9 138:17 415:2,2,20,21 507:10,15,19 300:2 302:6 190:11 191:17 416:3 418:18 511:7,22 512:6 342:18 343:9 248:24 290:19 419:8 422:8,20 518:20 519:16 353:7,21,23 312:1 321:10 423:2,13 424:5 524:23 529:14 380:14 382:10 324:17 331:16 424:7,14 425:2 531:14 533:11 382:12 384:17 342:17 343:8 431:8,11,20 36:2 390:23 410:9 391:14 392:20 432:18 433:3 416:10 444:18	384:1 389:19	485:9,10,12,17	204:19 205:3	360:1 366:20
391:19,22,24 489:10,12,23 210:2 212:3,14 435:16 448:14 392:4,10,12 500:11 503:24 219:7 220:16 460:24 478:23 394:12 396:4,8 504:5,10,12,14 227:8 229:12 490:21 491:18 400:8,23 504:19,21,22 230:20 239:23 492:6 518:19 409:7 413:8 505:15 506:4 254:24 263:20 70:17,21 71:1 414:1,17,20 506:14 507:7 277:18 299:18 128:9 138:17 415:2,2,20,21 507:10,15,19 300:2 302:6 190:11 191:17 416:23 418:18 511:7,22 512:6 342:18 343:9 248:24 290:19 419:8 422:8,20 518:20 519:16 353:7,21,23 312:1 321:10 423:2,13 424:5 524:23 529:14 380:14 382:10 324:17 331:16 424:7,14 425:2 531:14 533:11 382:12 384:17 342:17 343:8 431:8,11,20 536:2 390:23 410:9 391:14 392:20 432:18 433:3 416:10 444:18 42:3 57:16 58:6 508:13 510:9 415:9 416:12 47:4 448:15 58:9,13,24 50:15 525:20 429:13,13 45:53 456:8,9 70	389:21,22	485:18 487:17	209:11,14,17	368:13 369:2
392:4,10,12 500:11 503:24 219:7 220:16 460:24 478:23 394:12 396:4,8 504:5,10,12,14 227:8 229:12 490:21 491:18 400:8,23 504:19,21,22 230:20 239:23 492:6 518:19 409:7 413:8 505:15 506:4 254:24 263:20 70:17,21 71:1 414:1,17,20 506:14 507:7 277:18 299:18 128:9 138:17 415:2,2,20,21 507:10,15,19 300:2 302:6 190:11 191:17 416:3,16,20 507:24 508:16 306:17 307:19 228:15,17,20 416:23 418:18 511:7,22 512:6 342:18 343:9 248:24 290:19 419:8 422:8,20 518:20 519:16 353:7,21,23 312:1 321:10 423:2,13 424:5 524:23 529:14 380:14 382:10 324:17 331:16 424:7,14 425:2 531:14 533:11 382:12 384:17 342:17 343:8 431:8,11,20 536:2 390:23 410:9 391:14 392:20 432:18 433:3 talcum 1:6 7:14 412:3 414:11 392:22 398:12 436:3 438:12 35:23 36:14,18 453:17 507:2 416:12 417:12 436:5 46:14 42:3 57:16 58:6	390:17 391:15	488:4,12,12	209:19,22	430:19 432:9
394:12 396:4,8 504:5,10,12,14 227:8 229:12 490:21 491:18 400:8,23 504:19,21,22 230:20 239:23 492:6 518:19 409:7 413:8 505:15 506:4 254:24 263:20 70:17,21 71:1 414:1,17,20 506:14 507:7 277:18 299:18 128:9 138:17 415:2,2,20,21 507:10,15,19 300:2 302:6 190:11 191:17 416:13,16,20 507:24 508:16 306:17 307:19 228:15,17,20 416:23 418:18 511:7,22 512:6 342:18 343:9 248:24 290:19 419:8 422:8,20 518:20 519:16 353:7,21,23 312:1 321:10 423:2,13 424:5 524:23 529:14 380:14 382:10 324:17 331:16 424:7,14 425:2 531:14 533:11 382:12 384:17 342:17 343:8 431:8,11,20 536:2 390:23 410:9 391:14 392:20 432:18 433:3 talcum 1:6 7:14 412:3 414:11 392:22 398:12 434:16 444:18 42:3 57:16 58:6 508:13 510:9 418:10 429:3,6 447:4 448:15 58:9,13,24 510:15 525:20 429:13,13 449:5 454:12 65:20 68:16 <t< td=""><td>391:19,22,24</td><td>489:10,12,23</td><td>210:2 212:3,14</td><td>435:16 448:14</td></t<>	391:19,22,24	489:10,12,23	210:2 212:3,14	435:16 448:14
400:8,23 504:19,21,22 230:20 239:23 492:6 518:19 407:20,23 504:23 505:12 244:1 250:7 talked 54:19 409:7 413:8 505:15 506:4 254:24 263:20 70:17,21 71:1 414:1,17,20 506:14 507:7 277:18 299:18 128:9 138:17 415:2,2,20,21 507:10,15,19 300:2 302:6 190:11 191:17 416:23 418:18 511:7,22 512:6 342:18 343:9 248:24 290:19 419:8 422:8,20 518:20 519:16 353:7,21,23 312:1 321:10 423:2,13 424:5 524:23 529:14 380:14 382:10 324:17 331:16 424:7,14 425:2 531:14 533:11 382:12 384:17 342:17 343:8 428:4,13 430:8 533:11 535:20 389:14 390:9 368:12 381:16 431:8,11,20 536:2 390:23 410:9 391:14 392:20 432:18 433:3 talcum 1:6 7:14 412:3 414:11 392:22 398:12 436:3 438:12 35:23 36:14,18 453:17 507:2 416:12 417:12 441:16 444:18 42:3 57:16 58:6 508:13 510:9 418:10 429:3,6 455:3 456:8,9 70:7,23 71:3,21	392:4,10,12	500:11 503:24	219:7 220:16	460:24 478:23
407:20,23 504:23 505:12 244:1 250:7 talked 54:19 409:7 413:8 505:15 506:4 254:24 263:20 70:17,21 71:1 414:1,17,20 506:14 507:7 277:18 299:18 128:9 138:17 415:2,2,20,21 507:10,15,19 300:2 302:6 190:11 191:17 416:13,16,20 507:24 508:16 306:17 307:19 228:15,17,20 416:23 418:18 511:7,22 512:6 342:18 343:9 248:24 290:19 419:8 422:8,20 518:20 519:16 353:7,21,23 312:1 321:10 423:2,13 424:5 524:23 529:14 380:14 382:10 324:17 331:16 424:7,14 425:2 531:14 533:11 382:12 384:17 342:17 343:8 428:4,13 430:8 533:11 535:20 389:14 390:9 368:12 381:16 431:8,11,20 536:2 390:23 410:9 391:14 392:20 432:18 433:3 talcum 1:6 7:14 412:3 414:11 392:22 398:12 436:3 438:12 27:2,5,11 28:1 416:10 453:9 416:12 417:12 441:16 444:18 42:3 57:16 58:6 508:13 510:9 418:10 429:3,6 455:3 456:8,9 70:	394:12 396:4,8	504:5,10,12,14	227:8 229:12	490:21 491:18
409:7 413:8 505:15 506:4 254:24 263:20 70:17,21 71:1 414:1,17,20 506:14 507:7 277:18 299:18 128:9 138:17 415:2,2,20,21 507:10,15,19 300:2 302:6 190:11 191:17 416:13,16,20 507:24 508:16 306:17 307:19 228:15,17,20 416:23 418:18 511:7,22 512:6 342:18 343:9 248:24 290:19 419:8 422:8,20 518:20 519:16 353:7,21,23 312:1 321:10 423:2,13 424:5 524:23 529:14 380:14 382:10 324:17 331:16 424:7,14 425:2 531:14 533:11 382:12 384:17 342:17 343:8 431:8,11,20 536:2 390:23 410:9 391:14 392:20 432:18 433:3 talcum 1:6 7:14 412:3 414:11 392:22 398:12 436:3 438:12 27:2,5,11 28:1 416:10 453:9 415:9 416:12 436:3 438:12 35:23 36:14,18 453:17 507:2 416:12 417:12 441:16 444:18 42:3 57:16 58:6 508:13 510:9 418:10 429:3,6 455:3 456:8,9 70:7,23 71:3,21 talk 13:24 439:19 445:5 456:15 461:7 81:8 114:4,22	400:8,23	504:19,21,22	230:20 239:23	492:6 518:19
414:1,17,20 506:14 507:7 277:18 299:18 128:9 138:17 415:2,2,20,21 507:10,15,19 300:2 302:6 190:11 191:17 416:13,16,20 507:24 508:16 306:17 307:19 228:15,17,20 416:23 418:18 511:7,22 512:6 342:18 343:9 248:24 290:19 419:8 422:8,20 518:20 519:16 353:7,21,23 312:1 321:10 423:2,13 424:5 524:23 529:14 380:14 382:10 324:17 331:16 424:7,14 425:2 531:14 533:11 382:12 384:17 342:17 343:8 428:4,13 430:8 533:11 535:20 389:14 390:9 368:12 381:16 431:8,11,20 536:2 390:23 410:9 391:14 392:20 432:18 433:3 talcum 1:6 7:14 412:3 414:11 392:22 398:12 436:3 438:12 27:2,5,11 28:1 416:10 453:9 415:9 416:12 436:3 438:12 35:23 36:14,18 453:17 507:2 416:12 417:12 447:4 448:15 58:9,13,24 508:13 510:9 418:10 429:3,6 455:3 456:8,9 70:7,23 71:3,21 talk 13:24 439:19 445:5 456:15 461:7 81:8 114:4,22	407:20,23	504:23 505:12	244:1 250:7	talked 54:19
415:2,2,20,21 507:10,15,19 300:2 302:6 190:11 191:17 416:13,16,20 507:24 508:16 306:17 307:19 228:15,17,20 416:23 418:18 511:7,22 512:6 342:18 343:9 248:24 290:19 419:8 422:8,20 518:20 519:16 353:7,21,23 312:1 321:10 423:2,13 424:5 524:23 529:14 380:14 382:10 324:17 331:16 424:7,14 425:2 531:14 533:11 382:12 384:17 342:17 343:8 428:4,13 430:8 533:11 535:20 389:14 390:9 368:12 381:16 431:8,11,20 536:2 390:23 410:9 391:14 392:20 432:18 433:3 talcum 1:6 7:14 412:3 414:11 392:22 398:12 436:3 438:12 35:23 36:14,18 453:17 507:2 416:12 417:12 441:16 444:18 42:3 57:16 58:6 508:13 510:9 418:10 429:3,6 447:4 448:15 58:9,13,24 50:15 525:20 429:13,13 449:5 454:12 65:20 68:16 526:2 432:2 439:16 455:3 456:8,9 70:7,23 71:3,21 talk 13:24 439:19 445:5 465:23 466:4 146:1,21 147:1 <t< td=""><td>409:7 413:8</td><td>505:15 506:4</td><td>254:24 263:20</td><td>70:17,21 71:1</td></t<>	409:7 413:8	505:15 506:4	254:24 263:20	70:17,21 71:1
416:13,16,20 507:24 508:16 306:17 307:19 228:15,17,20 416:23 418:18 511:7,22 512:6 342:18 343:9 248:24 290:19 419:8 422:8,20 518:20 519:16 353:7,21,23 312:1 321:10 423:2,13 424:5 524:23 529:14 380:14 382:10 324:17 331:16 424:7,14 425:2 531:14 533:11 382:12 384:17 342:17 343:8 428:4,13 430:8 533:11 535:20 389:14 390:9 368:12 381:16 431:8,11,20 536:2 390:23 410:9 391:14 392:20 432:18 433:3 talcum 1:6 7:14 412:3 414:11 392:22 398:12 436:3 438:12 35:23 36:14,18 453:17 507:2 416:12 417:12 441:16 444:18 42:3 57:16 58:6 508:13 510:9 418:10 429:3,6 447:4 448:15 58:9,13,24 510:15 525:20 429:13,13 449:5 454:12 65:20 68:16 526:2 432:2 439:16 455:3 456:8,9 70:7,23 71:3,21 talk 13:24 439:19 445:5 466:15 461:7 81:8 114:4,22 27:24 36:6 42:2 445:12,19 465:23 466:4 146:1,21 147:1 <	414:1,17,20	506:14 507:7	277:18 299:18	128:9 138:17
416:23 418:18 511:7,22 512:6 342:18 343:9 248:24 290:19 419:8 422:8,20 518:20 519:16 353:7,21,23 312:1 321:10 423:2,13 424:5 524:23 529:14 380:14 382:10 324:17 331:16 424:7,14 425:2 531:14 533:11 382:12 384:17 342:17 343:8 428:4,13 430:8 533:11 535:20 389:14 390:9 368:12 381:16 431:8,11,20 536:2 390:23 410:9 391:14 392:20 432:18 433:3 talcum 1:6 7:14 412:3 414:11 392:22 398:12 436:3 438:12 27:2,5,11 28:1 416:10 453:9 415:9 416:12 436:3 438:12 35:23 36:14,18 453:17 507:2 416:12 417:12 441:16 444:18 42:3 57:16 58:6 508:13 510:9 418:10 429:3,6 447:4 448:15 58:9,13,24 510:15 525:20 429:13,13 449:5 454:12 65:20 68:16 526:2 432:2 439:16 455:3 456:8,9 70:7,23 71:3,21 talk 13:24 439:19 445:5 466:15 461:7 81:8 114:4,22 27:24 36:6 42:2 445:12,19 466:23 467:23 148:14 149:6 <t< td=""><td>415:2,2,20,21</td><td>507:10,15,19</td><td>300:2 302:6</td><td>190:11 191:17</td></t<>	415:2,2,20,21	507:10,15,19	300:2 302:6	190:11 191:17
419:8 422:8,20 518:20 519:16 353:7,21,23 312:1 321:10 423:2,13 424:5 524:23 529:14 380:14 382:10 324:17 331:16 424:7,14 425:2 531:14 533:11 382:12 384:17 342:17 343:8 428:4,13 430:8 533:11 535:20 389:14 390:9 368:12 381:16 431:8,11,20 536:2 390:23 410:9 391:14 392:20 432:18 433:3 talcum 1:6 7:14 412:3 414:11 392:22 398:12 436:3 438:12 27:2,5,11 28:1 416:10 453:9 415:9 416:12 436:3 438:12 35:23 36:14,18 453:17 507:2 416:12 417:12 441:16 444:18 42:3 57:16 58:6 508:13 510:9 418:10 429:3,6 447:4 448:15 58:9,13,24 510:15 525:20 429:13,13 449:5 454:12 65:20 68:16 526:2 432:2 439:16 455:3 456:8,9 70:7,23 71:3,21 talk 13:24 439:19 445:5 456:15 461:7 81:8 114:4,22 27:24 36:6 42:2 445:12,19 462:20 463:13 140:9,16 71:22 98:9 446:3 459:14 466:23 467:23 148:14 149:6 152:24 190:4 479:2,9 490:21 468:11 469:12 149:19,21	416:13,16,20	507:24 508:16	306:17 307:19	228:15,17,20
423:2,13 424:5 524:23 529:14 380:14 382:10 324:17 331:16 424:7,14 425:2 531:14 533:11 382:12 384:17 342:17 343:8 428:4,13 430:8 533:11 535:20 389:14 390:9 368:12 381:16 431:8,11,20 536:2 390:23 410:9 391:14 392:20 432:18 433:3 talcum 1:6 7:14 412:3 414:11 392:22 398:12 436:3 438:12 27:2,5,11 28:1 416:10 453:9 415:9 416:12 43:16 444:18 42:3 57:16 58:6 508:13 510:9 418:10 429:3,6 447:4 448:15 58:9,13,24 510:15 525:20 429:13,13 449:5 454:12 65:20 68:16 526:2 432:2 439:16 455:3 456:8,9 70:7,23 71:3,21 talk 13:24 439:19 445:5 456:15 461:7 81:8 114:4,22 27:24 36:6 42:2 445:12,19 462:20 463:13 140:9,16 71:22 98:9 446:3 459:14 466:23 467:23 148:14 149:6 152:24 190:4 479:2,9 490:21 468:11 469:12 149:19,21,24 232:12 233:7 513:11,14 470:8,11 474:5 150:10 151:2 234:10,13 </td <td>416:23 418:18</td> <td>511:7,22 512:6</td> <td>342:18 343:9</td> <td>248:24 290:19</td>	416:23 418:18	511:7,22 512:6	342:18 343:9	248:24 290:19
424:7,14 425:2 531:14 533:11 382:12 384:17 342:17 343:8 428:4,13 430:8 533:11 535:20 389:14 390:9 368:12 381:16 431:8,11,20 536:2 390:23 410:9 391:14 392:20 432:18 433:3 talcum 1:6 7:14 412:3 414:11 392:22 398:12 436:3 438:12 27:2,5,11 28:1 416:10 453:9 415:9 416:12 436:3 438:12 35:23 36:14,18 453:17 507:2 416:12 417:12 441:16 444:18 42:3 57:16 58:6 508:13 510:9 418:10 429:3,6 447:4 448:15 58:9,13,24 510:15 525:20 429:13,13 449:5 454:12 65:20 68:16 526:2 432:2 439:16 455:3 456:8,9 70:7,23 71:3,21 talk 13:24 439:19 445:5 456:15 461:7 81:8 114:4,22 27:24 36:6 42:2 445:12,19 462:20 463:13 140:9,16 71:22 98:9 446:3 459:14 464:2,2 465:5 141:10,20 99:22 121:1 461:12,20 465:23 466:4 146:1,21 147:1 130:22 135:13 462:3,13 466:2 468:11 469:12 149:19,21,24 232:12 233:7 513:11,14 470:8,11 474:5 150:10 151:2	419:8 422:8,20	518:20 519:16	353:7,21,23	312:1 321:10
428:4,13 430:8 533:11 535:20 389:14 390:9 368:12 381:16 431:8,11,20 536:2 390:23 410:9 391:14 392:20 432:18 433:3 talcum 1:6 7:14 412:3 414:11 392:22 398:12 436:3 438:12 27:2,5,11 28:1 416:10 453:9 415:9 416:12 436:3 438:12 35:23 36:14,18 453:17 507:2 416:12 417:12 441:16 444:18 42:3 57:16 58:6 508:13 510:9 418:10 429:3,6 447:4 448:15 58:9,13,24 510:15 525:20 429:13,13 449:5 454:12 65:20 68:16 526:2 432:2 439:16 455:3 456:8,9 70:7,23 71:3,21 talk 13:24 439:19 445:5 456:15 461:7 81:8 114:4,22 27:24 36:6 42:2 445:12,19 462:20 463:13 140:9,16 71:22 98:9 446:3 459:14 464:2,2 465:5 141:10,20 99:22 121:1 461:12,20 465:23 466:4 146:1,21 147:1 130:22 135:13 462:3,13 466:2 466:23 467:23 148:14 149:6 152:24 190:4 479:2,9 490:21 468:11 469:12 149:19,21,24 232:12 233:7 513:11,14 470:8,11 474:5 150:10 151:2	423:2,13 424:5	524:23 529:14	380:14 382:10	324:17 331:16
431:8,11,20 536:2 390:23 410:9 391:14 392:20 432:18 433:3 talcum 1:6 7:14 412:3 414:11 392:22 398:12 434:24 435:23 27:2,5,11 28:1 416:10 453:9 415:9 416:12 436:3 438:12 35:23 36:14,18 453:17 507:2 416:12 417:12 441:16 444:18 42:3 57:16 58:6 508:13 510:9 418:10 429:3,6 447:4 448:15 58:9,13,24 510:15 525:20 429:13,13 449:5 454:12 65:20 68:16 526:2 432:2 439:16 455:3 456:8,9 70:7,23 71:3,21 41k 13:24 439:19 445:5 456:15 461:7 81:8 114:4,22 27:24 36:6 42:2 445:12,19 462:20 463:13 140:9,16 71:22 98:9 446:3 459:14 465:23 466:4 146:1,21 147:1 130:22 135:13 462:3,13 466:2 466:23 467:23 148:14 149:6 152:24 190:4 479:2,9 490:21 468:11 469:12 149:19,21,24 232:12 233:7 513:11,14 470:8,11 474:5 150:10 151:2 234:10,13 514:5 515:16	424:7,14 425:2	531:14 533:11	382:12 384:17	342:17 343:8
432:18 433:3 talcum 1:6 7:14 412:3 414:11 392:22 398:12 434:24 435:23 27:2,5,11 28:1 416:10 453:9 415:9 416:12 436:3 438:12 35:23 36:14,18 453:17 507:2 416:12 417:12 441:16 444:18 42:3 57:16 58:6 508:13 510:9 418:10 429:3,6 447:4 448:15 58:9,13,24 510:15 525:20 429:13,13 449:5 454:12 65:20 68:16 526:2 432:2 439:16 455:3 456:8,9 70:7,23 71:3,21 talk 13:24 439:19 445:5 456:15 461:7 81:8 114:4,22 27:24 36:6 42:2 445:12,19 462:20 463:13 140:9,16 71:22 98:9 446:3 459:14 464:2,2 465:5 141:10,20 99:22 121:1 461:12,20 465:23 466:4 146:1,21 147:1 130:22 135:13 462:3,13 466:2 468:11 469:12 149:19,21,24 232:12 233:7 513:11,14 470:8,11 474:5 150:10 151:2 234:10,13 514:5 515:16	428:4,13 430:8	533:11 535:20	389:14 390:9	368:12 381:16
434:24 435:23 27:2,5,11 28:1 416:10 453:9 415:9 416:12 436:3 438:12 35:23 36:14,18 453:17 507:2 416:12 417:12 441:16 444:18 42:3 57:16 58:6 508:13 510:9 418:10 429:3,6 447:4 448:15 58:9,13,24 510:15 525:20 429:13,13 449:5 454:12 65:20 68:16 526:2 432:2 439:16 455:3 456:8,9 70:7,23 71:3,21 talk 13:24 439:19 445:5 456:15 461:7 81:8 114:4,22 27:24 36:6 42:2 445:12,19 462:20 463:13 140:9,16 71:22 98:9 446:3 459:14 464:2,2 465:5 141:10,20 99:22 121:1 461:12,20 465:23 466:4 146:1,21 147:1 130:22 135:13 462:3,13 466:2 468:11 469:12 149:19,21,24 232:12 233:7 513:11,14 470:8,11 474:5 150:10 151:2 234:10,13 514:5 515:16	431:8,11,20	536:2	390:23 410:9	391:14 392:20
436:3 438:12 35:23 36:14,18 453:17 507:2 416:12 417:12 441:16 444:18 42:3 57:16 58:6 508:13 510:9 418:10 429:3,6 447:4 448:15 58:9,13,24 510:15 525:20 429:13,13 449:5 454:12 65:20 68:16 526:2 432:2 439:16 455:3 456:8,9 70:7,23 71:3,21 talk 13:24 439:19 445:5 456:15 461:7 81:8 114:4,22 27:24 36:6 42:2 445:12,19 462:20 463:13 140:9,16 71:22 98:9 446:3 459:14 464:2,2 465:5 141:10,20 99:22 121:1 461:12,20 465:23 466:4 146:1,21 147:1 130:22 135:13 462:3,13 466:2 466:23 467:23 148:14 149:6 152:24 190:4 479:2,9 490:21 468:11 469:12 149:19,21,24 232:12 233:7 513:11,14 470:8,11 474:5 150:10 151:2 234:10,13 514:5 515:16	432:18 433:3	talcum 1:6 7:14	412:3 414:11	392:22 398:12
441:16 444:18 42:3 57:16 58:6 508:13 510:9 418:10 429:3,6 447:4 448:15 58:9,13,24 510:15 525:20 429:13,13 449:5 454:12 65:20 68:16 526:2 432:2 439:16 455:3 456:8,9 70:7,23 71:3,21 talk 13:24 439:19 445:5 456:15 461:7 81:8 114:4,22 27:24 36:6 42:2 445:12,19 462:20 463:13 140:9,16 71:22 98:9 446:3 459:14 464:2,2 465:5 141:10,20 99:22 121:1 461:12,20 465:23 466:4 146:1,21 147:1 130:22 135:13 462:3,13 466:2 466:23 467:23 148:14 149:6 152:24 190:4 479:2,9 490:21 468:11 469:12 149:19,21,24 232:12 233:7 513:11,14 470:8,11 474:5 150:10 151:2 234:10,13 514:5 515:16	434:24 435:23	27:2,5,11 28:1	416:10 453:9	415:9 416:12
447:4 448:15 58:9,13,24 510:15 525:20 429:13,13 449:5 454:12 65:20 68:16 526:2 432:2 439:16 455:3 456:8,9 70:7,23 71:3,21 talk 13:24 439:19 445:5 456:15 461:7 81:8 114:4,22 27:24 36:6 42:2 445:12,19 462:20 463:13 140:9,16 71:22 98:9 446:3 459:14 464:2,2 465:5 141:10,20 99:22 121:1 461:12,20 465:23 466:4 146:1,21 147:1 130:22 135:13 462:3,13 466:2 466:23 467:23 148:14 149:6 152:24 190:4 479:2,9 490:21 468:11 469:12 149:19,21,24 232:12 233:7 513:11,14 470:8,11 474:5 150:10 151:2 234:10,13 514:5 515:16	436:3 438:12	35:23 36:14,18	453:17 507:2	416:12 417:12
449:5 454:12 65:20 68:16 526:2 432:2 439:16 455:3 456:8,9 70:7,23 71:3,21 talk 13:24 439:19 445:5 456:15 461:7 81:8 114:4,22 27:24 36:6 42:2 445:12,19 462:20 463:13 140:9,16 71:22 98:9 446:3 459:14 464:2,2 465:5 141:10,20 99:22 121:1 461:12,20 465:23 466:4 146:1,21 147:1 130:22 135:13 462:3,13 466:2 466:23 467:23 148:14 149:6 152:24 190:4 479:2,9 490:21 468:11 469:12 149:19,21,24 232:12 233:7 513:11,14 470:8,11 474:5 150:10 151:2 234:10,13 514:5 515:16	441:16 444:18	42:3 57:16 58:6	508:13 510:9	418:10 429:3,6
455:3 456:8,9 70:7,23 71:3,21 talk 13:24 439:19 445:5 456:15 461:7 81:8 114:4,22 27:24 36:6 42:2 445:12,19 462:20 463:13 140:9,16 71:22 98:9 446:3 459:14 464:2,2 465:5 141:10,20 99:22 121:1 461:12,20 465:23 466:4 146:1,21 147:1 130:22 135:13 462:3,13 466:2 466:23 467:23 148:14 149:6 152:24 190:4 479:2,9 490:21 468:11 469:12 149:19,21,24 232:12 233:7 513:11,14 470:8,11 474:5 150:10 151:2 234:10,13 514:5 515:16	447:4 448:15	58:9,13,24	510:15 525:20	429:13,13
456:15 461:7 81:8 114:4,22 27:24 36:6 42:2 445:12,19 462:20 463:13 140:9,16 71:22 98:9 446:3 459:14 464:2,2 465:5 141:10,20 99:22 121:1 461:12,20 465:23 466:4 146:1,21 147:1 130:22 135:13 462:3,13 466:2 466:23 467:23 148:14 149:6 152:24 190:4 479:2,9 490:21 468:11 469:12 149:19,21,24 232:12 233:7 513:11,14 470:8,11 474:5 150:10 151:2 234:10,13 514:5 515:16	449:5 454:12	65:20 68:16	526:2	432:2 439:16
462:20 463:13 140:9,16 71:22 98:9 446:3 459:14 464:2,2 465:5 141:10,20 99:22 121:1 461:12,20 465:23 466:4 146:1,21 147:1 130:22 135:13 462:3,13 466:2 466:23 467:23 148:14 149:6 152:24 190:4 479:2,9 490:21 468:11 469:12 149:19,21,24 232:12 233:7 513:11,14 470:8,11 474:5 150:10 151:2 234:10,13 514:5 515:16	455:3 456:8,9	70:7,23 71:3,21	talk 13:24	439:19 445:5
464:2,2 465:5 141:10,20 99:22 121:1 461:12,20 465:23 466:4 146:1,21 147:1 130:22 135:13 462:3,13 466:2 466:23 467:23 148:14 149:6 152:24 190:4 479:2,9 490:21 468:11 469:12 149:19,21,24 232:12 233:7 513:11,14 470:8,11 474:5 150:10 151:2 234:10,13 514:5 515:16	456:15 461:7	81:8 114:4,22	27:24 36:6 42:2	445:12,19
465:23 466:4 146:1,21 147:1 130:22 135:13 462:3,13 466:2 466:23 467:23 148:14 149:6 152:24 190:4 479:2,9 490:21 468:11 469:12 149:19,21,24 232:12 233:7 513:11,14 470:8,11 474:5 150:10 151:2 234:10,13 514:5 515:16	462:20 463:13	140:9,16	71:22 98:9	446:3 459:14
466:23 467:23 148:14 149:6 152:24 190:4 479:2,9 490:21 468:11 469:12 149:19,21,24 232:12 233:7 513:11,14 470:8,11 474:5 150:10 151:2 234:10,13 514:5 515:16	464:2,2 465:5	141:10,20	99:22 121:1	461:12,20
468:11 469:12 149:19,21,24 232:12 233:7 513:11,14 470:8,11 474:5 150:10 151:2 234:10,13 514:5 515:16	465:23 466:4	146:1,21 147:1	130:22 135:13	462:3,13 466:2
470:8,11 474:5	466:23 467:23	148:14 149:6	152:24 190:4	479:2,9 490:21
	468:11 469:12	149:19,21,24	232:12 233:7	513:11,14
475:16 477:24	470:8,11 474:5	150:10 151:2	234:10,13	514:5 515:16
	475:16 477:24	151:21 196:12	283:8 294:4,8	

[talking - thank]

Page 99

talking 74:4	309:23	313:1 336:15	62:13 202:22
89:6 98:16	team 28:14,17	336:16 403:1	204:19 384:16
155:6 177:10	51:1,2,12	407:24 504:23	testimony
210:6 212:22	tease 433:2	505:19 506:6	17:19 40:22
230:3,4 244:6	tell 12:13 20:11	terminology	41:3 55:7 72:8
247:20 253:1	44:24 56:10	264:9	184:7 187:16
293:17 294:7	57:2 59:5 69:2	terms 86:14	203:9,16,22
304:19 339:23	91:15 108:11	142:2 154:24	267:15 382:14
362:8,18 376:1	110:2,13 119:8	268:10 281:16	412:23 468:3
376:5,20	124:23 130:1	317:23 324:7	471:3 517:19
377:23 378:4,9	135:6 200:20	336:13 340:15	539:9
405:5 411:19	208:16 210:5	367:8,14 370:7	testing 201:7,21
422:22 428:12	211:2 230:9	378:17 405:6	202:24 205:4
448:18 474:14	236:9 257:10	terry 8:7	205:17 210:1
479:16 484:19	257:24 297:10	341:16 343:15	238:20 239:12
494:6,7,8	307:11,18	344:2 347:17	239:24 240:8
496:18 516:10	334:24 350:13	425:8	240:17 241:6
525:13	377:13 387:5	test 148:3	241:17 361:12
talks 441:13	397:10 399:24	311:15,20	363:22 481:23
444:16 471:18	399:24 405:9	371:17,24	524:9
478:4 479:1	435:5 455:23	373:11 404:12	tests 205:13
486:10	455:24 460:19	404:17,20,22	309:12 364:23
tamara 208:20	483:20 506:5	404:23 405:3,6	366:8 468:10
target 140:21	527:10,24	456:17 470:7	text 167:21
task 8:14	528:3,8 529:4	471:14 485:17	273:21
361:18 363:13	telling 152:11	tested 309:6	textbook 80:18
363:19	287:6 377:10	testified 12:5	80:19 320:22
taught 24:13,14	471:5,5	13:20 201:7	textbooks 80:17
24:16,18 26:2	tem 241:19	205:2 218:5	320:17 441:4,5
309:17,20,21	temporal 318:7	470:7 510:4	tfinken 4:10
teach 24:15	temporality	516:13 532:21	thank 14:11
26:5,8 310:14	229:21 234:11	532:23	110:11 139:17
311:21	234:17	testify 17:21	167:1,17
teachers 333:24	term 83:9	393:9	276:10 285:23
teaching 24:12	91:18,21	testifying 38:24	294:24 332:19
24:21 25:13	101:16 177:18	43:12,13 60:14	374:20 389:4

[thank - time] Page 100

		,	
395:15 417:20	527:3 531:20	413:15 416:22	17:16 19:5 24:9
460:22 482:12	think 20:22,22	418:10 421:2,3	25:7 26:15,18
483:6 503:5	20:23 21:2,6	432:13 436:2	46:9,12,16 47:3
517:1 536:14	29:19 41:13	436:10 437:22	48:10 63:10
thanks 143:1	45:11 54:16	442:24 484:2	65:16,18 66:6
theories 318:24	59:22 63:1	496:14 497:2	66:16 69:6
theory 319:1	73:22,24 74:20	519:20,24	72:14 80:24
therapeutic	79:22 110:1	523:1 530:23	86:7 88:4 91:3
332:10	127:20 128:14	530:24 533:2	91:20,22 93:19
therapy 113:21	128:16 129:10	third 129:3	103:4,8 107:18
114:3 130:23	129:11 130:12	171:24 250:18	107:22 108:9
156:24 158:2,5	130:19 141:6	256:4 484:3	110:15 116:23
thicker 76:20	145:9 150:4	thirds 181:4	116:24 122:23
thing 133:9	154:18 157:15	thought 64:20	126:3 128:21
181:19 208:11	160:18,22,24	107:18 108:12	129:2 138:14
274:4 348:9	166:8 175:24	121:21 236:1	150:6 151:14
381:11 480:16	176:16,16	283:3,11	152:23 153:13
494:9 504:2	197:10 222:11	290:10 294:19	153:17 154:10
517:7	229:14,23	325:22 436:3	154:13,14,14
things 43:5	233:2 234:15	450:20 451:4	154:16 164:17
130:24 132:17	234:17 235:21	480:4	168:2 169:4
166:9 199:3	242:9 259:24	thoughts 78:13	174:2,3,18
214:18,20	261:11,11	thousand 391:2	180:14 189:13
216:5,18	265:21 266:7	440:22	200:5,6,7,12
245:10,13	266:11,21	three 12:24	207:9 214:17
309:6 314:17	268:7 281:8	20:16 44:14	217:11 229:2
328:7 355:16	282:1,9 293:22	59:24 65:8,14	235:20 237:7
418:15 426:20	309:15 311:1	171:24 281:13	237:12 244:4
428:11 429:14	311:19 313:21	314:10 324:6	253:22 254:7
432:1 446:4	328:16 331:5	370:5,6 379:24	254:10 255:8
447:11,23	332:11 337:23	380:6 382:18	257:5,11,17,24
459:2 462:13	338:23 340:20	384:8 401:8	260:8 270:20
467:24 477:22	354:1 355:22	484:21 486:11	299:1 307:13
479:1,17,22	359:3 376:21	till 73:7 293:10	309:21 310:23
490:22 495:7	382:5,7 383:23	time 1:16 2:9	312:9 333:21
496:15 526:12	387:13 396:13	13:20 15:4	336:4,14 338:5

Document 33008-56 PageID: 211450

[time - tisi] Page 101

343:3 346:8	18:16 19:22	123:1,10,17,20	217:6 219:8
352:24 353:12	20:4,8,20 21:2	123:23 124:4	220:10 222:10
355:1 380:9	21:6 27:12	124:10,18	222:24 223:10
381:10 383:19	29:24 30:11,14	126:22 127:2,5	223:23 225:10
389:15 390:13	30:24 31:13	131:6 132:13	225:22 231:8
391:13 412:12	32:5,8 34:6,13	132:22 133:17	232:1 239:1,13
417:3,10,13	34:15 38:12	135:2 136:11	239:16 240:10
419:22 430:16	40:9 41:5,17	136:23 137:9	240:21,24
431:4 436:9,10	45:10,19,21	138:13,17	242:6,11,14,18
448:1 450:22	46:1,4 47:5	139:17 142:21	242:23 243:6
455:3 460:17	49:20,22 50:7	146:8 148:15	243:19 246:4
466:7 471:3,24	51:3,23 52:13	150:12,15	247:7,11 249:8
472:14,16	53:1,11,19 55:1	151:4,22	250:9 252:2
473:2 477:18	56:20 57:12,15	152:12 155:24	255:7,11,14,20
491:5 492:11	58:15 59:1	159:18 160:9	256:16 257:7
505:2,3,4 506:2	62:17 63:5,23	160:17 162:10	257:12,21
523:6 526:21	64:5,8,10 66:24	162:17,21	258:1,6 262:21
527:4,7,15,19	67:9 70:18	163:1 164:17	263:1,13,22
530:22 534:23	71:16 72:2,7,23	166:7,18	265:20 266:5,8
535:8,12	74:20 76:1,21	178:16 179:8	267:4,19,21
539:10	84:19 86:22	180:11,13,18	271:18 272:18
timeline 356:20	87:13 88:9,13	180:21 181:13	273:14 274:2,7
times 68:11	97:10 98:16,20	181:18,22	274:11,13,23
126:4,6 148:18	100:21 101:21	183:3 184:3,6	275:9,14,23
189:8 205:1	102:17 103:10	185:14 187:2	276:4 277:9
317:6,15	104:24 105:12	190:16,20	278:5 279:2
335:12 407:23	105:16 106:24	191:6 192:7	287:22 288:20
413:17,19	107:10,12	193:2 197:21	289:9 291:3
451:3 456:9	108:1,20 109:8	198:15 199:7	292:18,22
476:4 494:13	109:15,21	199:10,16,20	293:12 296:3
517:6,9 518:12	110:5,11,16,22	199:24 200:3	300:8 301:7,16
518:15,24	111:14 116:23	201:9,22 202:3	305:19 306:8
timing 344:16	117:12,17	202:9,14 203:2	311:18 312:24
tisi 3:6 5:5	118:5,19,24	203:12,24	313:20 314:22
13:18 14:20	119:5,10,14	204:5 210:9,20	315:4,11 317:5
15:2 17:14 18:8	120:7 121:17	214:1,5,9 216:3	317:14 320:13

[tisi - together] Page 102

322:8 324:14 427:23 428:10 475:3 476:10 tisi's 30:19 327:12 334:21 429:2,12,19 476:24 477:8 46:19 47:11 339:19,24 430:1 432:11 477:13 478:19 tissue 352:10 343:20 345:21 432:22 433:20 479:7,15 480:1 392:17 345:23 346:3 434:13 435:15 480:13,20 tissues 356:13 351:8,12,16,20 436:8 437:8,13 481:2,11,18 title 486:5 352:1 354:24 437:18,22 482:6,9,12,17 today 12:23 358:14,18,22 440:3,19 441:3 484:14,17,20 27:24 42:2 43:1 359:8,10,13,17 441:12 442:23 484:24 485:3 43:8 56:4 61:9 360:17 365:15 443:24 444:15 485:22 486:4 71:22 74:4 81:4 365:21 366:2 445:4,11,18 487:23 488:10 94:9 140:15 372:7,11,14,18 446:14 447:17 488:18 489:1,7 149:1 151:1,19 376:23 377:1,5 451:2,9,17 490:15 491:2 210:6 211:1,11 377:10,16,21 452:12,19 491:17,24 215:2,22,24 380:16 383:8 453:2,18,24 492:3,
339:19,24 430:1 432:11 477:13 478:19 tissue 352:10 343:20 345:21 432:22 433:20 479:7,15 480:1 392:17 345:23 346:3 434:13 435:15 480:13,20 tissues 356:13 351:8,12,16,20 436:8 437:8,13 481:2,11,18 title 486:5 352:1 354:24 437:18,22 482:6,9,12,17 titled 61:1 355:21 358:9 438:5 439:5 482:22 483:5,7 today 12:23 358:14,18,22 440:3,19 441:3 484:14,17,20 27:24 42:2 43:1 359:8,10,13,17 441:12 442:23 484:24 485:3 43:8 56:4 61:9 360:17 365:15 443:24 444:15 485:22 486:4 71:22 74:4 81:4 365:21 366:2 445:4,11,18 487:23 488:10 94:9 140:15 372:7,11,14,18 446:14 447:17 488:18 489:1,7 149:1 151:1,19 376:28,12,16 448:13 449:21 489:19 490:5 200:20 207:3 376:21 377:1,5 451:2,9,17 490:15 491:2 210:6 211:1,11 377:10,16,21 452:12,19 491:17,24 215:2,22,24 380:16 383:8 453:2,18,24 492:3,23 493:5 217:2 228:20 384:2,19,22 454:4,10
343:20 345:21 432:22 433:20 479:7,15 480:1 392:17 345:23 346:3 434:13 435:15 480:13,20 tissues 356:13 351:8,12,16,20 436:8 437:8,13 481:2,11,18 title 486:5 352:1 354:24 437:18,22 482:6,9,12,17 titled 61:1 355:21 358:9 438:5 439:5 482:22 483:5,7 today 12:23 358:14,18,22 440:3,19 441:3 484:14,17,20 27:24 42:2 43:1 359:8,10,13,17 441:12 442:23 484:24 485:3 43:8 56:4 61:9 360:17 365:15 443:24 444:15 485:22 486:4 71:22 74:4 81:4 365:21 366:2 445:4,11,18 487:23 488:10 94:9 140:15 372:7,11,14,18 446:14 447:17 488:18 489:1,7 149:1 151:1,19 376:28,12,16 448:13 449:21 489:19 490:5 200:20 207:3 376:21 377:1,5 451:2,9,17 490:15 491:2 210:6 211:1,11 377:10,16,21 452:12,19 491:17,24 215:2,22,24 380:16 383:8 453:2,18,24 492:3,23 493:5 217:2 228:20 394:15,19 455:17 456:22 496:2 497:1,10 249:16 251:17 396:10 397:16 457:1
345:23 346:3 434:13 435:15 480:13,20 tissues 356:13 351:8,12,16,20 436:8 437:8,13 481:2,11,18 title 486:5 352:1 354:24 437:18,22 482:6,9,12,17 titled 61:1 355:21 358:9 438:5 439:5 482:22 483:5,7 today 12:23 358:14,18,22 440:3,19 441:3 484:14,17,20 27:24 42:2 43:1 359:8,10,13,17 441:12 442:23 484:24 485:3 43:8 56:4 61:9 360:17 365:15 443:24 444:15 485:22 486:4 71:22 74:4 81:4 365:21 366:2 445:4,11,18 487:23 488:10 94:9 140:15 372:7,11,14,18 446:14 447:17 488:18 489:1,7 149:1 151:1,19 376:28,12,16 448:13 449:21 489:19 490:5 200:20 207:3 376:21 377:1,5 451:2,9,17 490:15 491:2 210:6 211:1,11 377:10,16,21 452:12,19 491:17,24 215:2,22,24 384:2,19,22 454:4,10 455:8 494:20 495:13 240:6 244:9 394:15,19 455:17 456:22 496:2 497:1,10 249:16 251:17 396:10 397:16 457:14 458:13 499:4,8 500:2,6 256:1 278:16 397:20 401:4 <td< td=""></td<>
351:8,12,16,20 436:8 437:8,13 481:2,11,18 title 486:5 352:1 354:24 437:18,22 482:6,9,12,17 titled 61:1 355:21 358:9 438:5 439:5 482:22 483:5,7 today 12:23 358:14,18,22 440:3,19 441:3 484:14,17,20 27:24 42:2 43:1 359:8,10,13,17 441:12 442:23 484:24 485:3 43:8 56:4 61:9 360:17 365:15 443:24 444:15 485:22 486:4 71:22 74:4 81:4 365:21 366:2 445:4,11,18 487:23 488:10 94:9 140:15 372:7,11,14,18 446:14 447:17 488:18 489:1,7 149:1 151:1,19 376:28,12,16 448:13 449:21 489:19 490:5 200:20 207:3 376:21 377:1,5 451:2,9,17 490:15 491:2 210:6 211:1,11 377:10,16,21 452:12,19 491:17,24 215:2,22,24 380:16 383:8 453:2,18,24 492:3,23 493:5 217:2 228:20 384:2,19,22 454:4,10 455:8 494:20 495:13 240:6 244:9 394:15,19 455:17 456:22 496:2 497:1,10 249:16 251:17 396:10 397:16 457:14 458:13 499:4,8 500:2,6 256:1 278:16 397:20 401:4 <t< td=""></t<>
352:1 354:24 437:18,22 482:6,9,12,17 titled 61:1 355:21 358:9 438:5 439:5 482:22 483:5,7 today 12:23 358:14,18,22 440:3,19 441:3 484:14,17,20 27:24 42:2 43:1 359:8,10,13,17 441:12 442:23 484:24 485:3 43:8 56:4 61:9 360:17 365:15 443:24 444:15 485:22 486:4 71:22 74:4 81:4 365:21 366:2 445:4,11,18 487:23 488:10 94:9 140:15 372:7,11,14,18 446:14 447:17 488:18 489:1,7 149:1 151:1,19 376:28,12,16 448:13 449:21 489:19 490:5 200:20 207:3 376:21 377:1,5 451:2,9,17 490:15 491:2 210:6 211:1,11 377:10,16,21 452:12,19 491:17,24 215:2,22,24 380:16 383:8 453:2,18,24 492:3,23 493:5 217:2 228:20 384:2,19,22 454:4,10 455:8 494:20 495:13 240:6 244:9 394:15,19 455:17 456:22 496:2 497:1,10 249:16 251:17 396:10 397:16 457:14 458:13 499:4,8 500:2,6 256:1 278:16 397:20 401:4 459:10,21 501:3,8,11,16 311:6 354:18 402:19 405:23 4
355:21 358:9 438:5 439:5 482:22 483:5,7 today 12:23 358:14,18,22 440:3,19 441:3 484:14,17,20 27:24 42:2 43:1 359:8,10,13,17 441:12 442:23 484:24 485:3 43:8 56:4 61:9 360:17 365:15 443:24 444:15 485:22 486:4 71:22 74:4 81:4 365:21 366:2 445:4,11,18 487:23 488:10 94:9 140:15 372:7,11,14,18 446:14 447:17 488:18 489:1,7 149:1 151:1,19 376:28,12,16 448:13 449:21 489:19 490:5 200:20 207:3 376:21 377:1,5 451:2,9,17 490:15 491:2 210:6 211:1,11 377:10,16,21 452:12,19 491:17,24 215:2,22,24 380:16 383:8 453:2,18,24 492:3,23 493:5 217:2 228:20 384:2,19,22 454:4,10 455:8 494:20 495:13 240:6 244:9 394:15,19 455:17 456:22 496:2 497:1,10 249:16 251:17 396:10 397:16 457:14 458:13 499:4,8 500:2,6 256:1 278:16 397:20 401:4 459:10,21 501:3,8,11,16 311:6 354:18 402:19 405:23 460:3,15 502:12 513:5 355:16 368:12
358:14,18,22 440:3,19 441:3 484:14,17,20 27:24 42:2 43:1 359:8,10,13,17 441:12 442:23 484:24 485:3 43:8 56:4 61:9 360:17 365:15 443:24 444:15 485:22 486:4 71:22 74:4 81:4 365:21 366:2 445:4,11,18 487:23 488:10 94:9 140:15 372:7,11,14,18 446:14 447:17 488:18 489:1,7 149:1 151:1,19 376:2,8,12,16 448:13 449:21 489:19 490:5 200:20 207:3 376:21 377:1,5 451:2,9,17 490:15 491:2 210:6 211:1,11 377:10,16,21 452:12,19 491:17,24 215:2,22,24 380:16 383:8 453:2,18,24 492:3,23 493:5 217:2 228:20 384:2,19,22 454:4,10 455:8 494:20 495:13 240:6 244:9 394:15,19 455:17 456:22 496:2 497:1,10 249:16 251:17 396:10 397:16 457:14 458:13 499:4,8 500:2,6 256:1 278:16 397:20 401:4 459:10,21 501:3,8,11,16 311:6 354:18 402:19 405:23 460:3,15 502:12 513:5 355:16 368:12
359:8,10,13,17 441:12 442:23 484:24 485:3 43:8 56:4 61:9 360:17 365:15 443:24 444:15 485:22 486:4 71:22 74:4 81:4 365:21 366:2 445:4,11,18 487:23 488:10 94:9 140:15 372:7,11,14,18 446:14 447:17 488:18 489:1,7 149:1 151:1,19 376:2,8,12,16 448:13 449:21 489:19 490:5 200:20 207:3 376:21 377:1,5 451:2,9,17 490:15 491:2 210:6 211:1,11 377:10,16,21 452:12,19 491:17,24 215:2,22,24 380:16 383:8 453:2,18,24 492:3,23 493:5 217:2 228:20 384:2,19,22 454:4,10 455:8 494:20 495:13 240:6 244:9 394:15,19 455:17 456:22 496:2 497:1,10 249:16 251:17 396:10 397:16 457:14 458:13 499:4,8 500:2,6 256:1 278:16 397:20 401:4 459:10,21 501:3,8,11,16 311:6 354:18 402:19 405:23 460:3,15 502:12 513:5 355:16 368:12
360:17 365:15 443:24 444:15 485:22 486:4 71:22 74:4 81:4 365:21 366:2 445:4,11,18 487:23 488:10 94:9 140:15 372:7,11,14,18 446:14 447:17 488:18 489:1,7 149:1 151:1,19 376:2,8,12,16 448:13 449:21 489:19 490:5 200:20 207:3 376:21 377:1,5 451:2,9,17 490:15 491:2 210:6 211:1,11 377:10,16,21 452:12,19 491:17,24 215:2,22,24 380:16 383:8 453:2,18,24 492:3,23 493:5 217:2 228:20 384:2,19,22 454:4,10 455:8 494:20 495:13 240:6 244:9 394:15,19 455:17 456:22 496:2 497:1,10 249:16 251:17 396:10 397:16 457:14 458:13 499:4,8 500:2,6 256:1 278:16 397:20 401:4 459:10,21 501:3,8,11,16 311:6 354:18 402:19 405:23 460:3,15 502:12 513:5 355:16 368:12
365:21 366:2 445:4,11,18 487:23 488:10 94:9 140:15 372:7,11,14,18 446:14 447:17 488:18 489:1,7 149:1 151:1,19 376:2,8,12,16 448:13 449:21 489:19 490:5 200:20 207:3 376:21 377:1,5 451:2,9,17 490:15 491:2 210:6 211:1,11 377:10,16,21 452:12,19 491:17,24 215:2,22,24 380:16 383:8 453:2,18,24 492:3,23 493:5 217:2 228:20 384:2,19,22 454:4,10 455:8 494:20 495:13 240:6 244:9 394:15,19 455:17 456:22 496:2 497:1,10 249:16 251:17 396:10 397:16 457:14 458:13 499:4,8 500:2,6 256:1 278:16 397:20 401:4 459:10,21 501:3,8,11,16 311:6 354:18 402:19 405:23 460:3,15 502:12 513:5 355:16 368:12
372:7,11,14,18 446:14 447:17 488:18 489:1,7 149:1 151:1,19 376:2,8,12,16 448:13 449:21 489:19 490:5 200:20 207:3 376:21 377:1,5 451:2,9,17 490:15 491:2 210:6 211:1,11 377:10,16,21 452:12,19 491:17,24 215:2,22,24 380:16 383:8 453:2,18,24 492:3,23 493:5 217:2 228:20 384:2,19,22 454:4,10 455:8 494:20 495:13 240:6 244:9 394:15,19 455:17 456:22 496:2 497:1,10 249:16 251:17 396:10 397:16 457:14 458:13 499:4,8 500:2,6 256:1 278:16 397:20 401:4 459:10,21 501:3,8,11,16 311:6 354:18 402:19 405:23 460:3,15 502:12 513:5 355:16 368:12
376:2,8,12,16 448:13 449:21 489:19 490:5 200:20 207:3 376:21 377:1,5 451:2,9,17 490:15 491:2 210:6 211:1,11 377:10,16,21 452:12,19 491:17,24 215:2,22,24 380:16 383:8 453:2,18,24 492:3,23 493:5 217:2 228:20 384:2,19,22 454:4,10 455:8 494:20 495:13 240:6 244:9 394:15,19 455:17 456:22 496:2 497:1,10 249:16 251:17 396:10 397:16 457:14 458:13 499:4,8 500:2,6 256:1 278:16 397:20 401:4 459:10,21 501:3,8,11,16 311:6 354:18 402:19 405:23 460:3,15 502:12 513:5 355:16 368:12
376:21 377:1,5 451:2,9,17 490:15 491:2 210:6 211:1,11 377:10,16,21 452:12,19 491:17,24 215:2,22,24 380:16 383:8 453:2,18,24 492:3,23 493:5 217:2 228:20 384:2,19,22 454:4,10 455:8 494:20 495:13 240:6 244:9 394:15,19 455:17 456:22 496:2 497:1,10 249:16 251:17 396:10 397:16 457:14 458:13 499:4,8 500:2,6 256:1 278:16 397:20 401:4 459:10,21 501:3,8,11,16 311:6 354:18 402:19 405:23 460:3,15 502:12 513:5 355:16 368:12
377:10,16,21 452:12,19 491:17,24 215:2,22,24 380:16 383:8 453:2,18,24 492:3,23 493:5 217:2 228:20 384:2,19,22 454:4,10 455:8 494:20 495:13 240:6 244:9 394:15,19 455:17 456:22 496:2 497:1,10 249:16 251:17 396:10 397:16 457:14 458:13 499:4,8 500:2,6 256:1 278:16 397:20 401:4 459:10,21 501:3,8,11,16 311:6 354:18 402:19 405:23 460:3,15 502:12 513:5 355:16 368:12
380:16 383:8 453:2,18,24 492:3,23 493:5 217:2 228:20 384:2,19,22 454:4,10 455:8 494:20 495:13 240:6 244:9 394:15,19 455:17 456:22 496:2 497:1,10 249:16 251:17 396:10 397:16 457:14 458:13 499:4,8 500:2,6 256:1 278:16 397:20 401:4 459:10,21 501:3,8,11,16 311:6 354:18 402:19 405:23 460:3,15 502:12 513:5 355:16 368:12
384:2,19,22 454:4,10 455:8 494:20 495:13 240:6 244:9 394:15,19 455:17 456:22 496:2 497:1,10 249:16 251:17 396:10 397:16 457:14 458:13 499:4,8 500:2,6 256:1 278:16 397:20 401:4 459:10,21 501:3,8,11,16 311:6 354:18 402:19 405:23 460:3,15 502:12 513:5 355:16 368:12
394:15,19 455:17 456:22 496:2 497:1,10 249:16 251:17 396:10 397:16 457:14 458:13 499:4,8 500:2,6 256:1 278:16 397:20 401:4 459:10,21 501:3,8,11,16 311:6 354:18 402:19 405:23 460:3,15 502:12 513:5 355:16 368:12
396:10 397:16 457:14 458:13 499:4,8 500:2,6 256:1 278:16 397:20 401:4 459:10,21 501:3,8,11,16 311:6 354:18 402:19 405:23 460:3,15 502:12 513:5 355:16 368:12
397:20 401:4 459:10,21 501:3,8,11,16 311:6 354:18 402:19 405:23 460:3,15 502:12 513:5 355:16 368:12
402:19 405:23 460:3,15 502:12 513:5 355:16 368:12
406.9 409.22 461.17 462.2 514.0 12 15 10 274.1 294.14
406:8 408:23 461:17 462:2 514:9,12,15,19 374:1 384:14
410:11 412:19
412:22 413:11
417:2,17 418:2 464:11,15,22 520:23 522:11 418:12,14
418:3,23 419:6 465:10,24 523:6,12 525:2 419:1,19
419:17 420:5,8 466:9,21 525:23 526:4,9 429:14 449:13
420:12,17,21 467:14,17,20 526:14,20,23 451:3 461:22
420:24 421:5 468:7,18 527:2,13,19 477:20 524:24
421:10,16,21 469:24 470:19 528:3,10,22 536:9
422:1,4,5 470:23 471:2,6 529:8 530:9 today's 15:11
423:11 424:2 471:9,17 472:8 531:16 532:15 16:2 514:3
424:12,22 472:23 473:7 532:17,21 together 39:8
425:20 426:6 473:18 474:3 535:10 536:3,7 39:12 41:15
426:11,15,18 474:17,21,24 536:11,14 48:8 68:10,11

[together - trials]

Page 103

78:2,12 100:4	top 42:9 49:16	toxicology 5:21	14:19,22
115:1 122:12	52:11 93:1	307:23 436:6	transfer 369:21
141:8 262:15	126:20 131:22	444:6	translate 139:8
298:11 324:2	137:19 170:17	toxin 434:4	translocation
342:8 393:24	195:8,12	track 67:10	256:9
402:4 405:2	270:10 318:18	482:13	transparencies
428:12 446:9	321:4,11,16	tract 115:24	91:13
459:5 498:21	326:10 408:5	127:14 184:22	transvaginal
499:3	450:8 484:2	265:8 322:1	137:19
toiletry 466:16	515:23,24	335:13 347:12	travel 423:4
told 25:10	516:1	371:20 372:1	456:15
50:17 67:20	topic 381:6	412:11 413:19	treating 191:9
68:19 70:11,12	465:23 529:14	423:5 433:19	268:5 292:2,4,6
70:14 75:20	total 26:22	446:23 456:16	treatment
80:24 81:4	48:19,20 49:8	462:6	292:9 304:23
90:13,15 100:6	125:24 155:16	tracts 324:5	tremolite
189:24 190:15	352:10 486:24	326:3 369:18	206:13,24
191:9 307:1,4,8	487:3 516:8	370:16 371:6,9	trend 87:10
307:15 320:3	523:22	373:9 375:16	115:20 116:12
332:1 377:24	totality 65:10	388:1 433:10	117:10 118:3
380:19 419:1	140:7	476:22	118:16 119:23
463:24 464:5,5	totally 202:14	tracy 4:5 34:8	120:4,23
465:11,11	toward 45:4	tracy's 63:7	121:14 122:9
467:23 468:9	222:1 303:19	traditional	125:17 321:23
513:16 527:2	towards 134:3	458:19	322:5 339:15
532:9	134:8 163:21	trained 69:5	340:23 347:18
took 44:8 63:11	330:19 334:9	training 42:22	348:5 400:22
78:3,4 349:17	374:8 475:8	127:6 204:16	404:12,18,22
355:14 369:14	512:16	305:2	404:23 405:3,6
452:5	toxic 11:13	transcript	523:22 524:2,5
tool 312:18	483:15	12:20 14:16,18	524:6
364:8	toxicity 253:19	92:7,10,15,21	trends 111:19
tools 235:13	254:23	451:24,24	115:5,14 131:4
363:23 365:7	toxicologist	538:5 539:8	trials 408:8
366:23	426:22	transcripts	409:10
		12:22 13:2	
L	1	1	1

[
tried 46:15	truly 93:11	370:23 372:6	181:17,24
170:14 232:5	261:14 370:8	378:11 411:22	188:8 246:8
232:19 368:10	522:7	412:16,18	251:21 252:12
392:2 434:14	trust 438:1	413:7,10,18	260:20 270:23
446:15 527:15	truth 169:11	414:3,7 416:16	273:21 274:21
trivial 450:4	try 148:7 170:3	416:24 455:12	297:8 318:16
true 85:13 86:3	187:10 332:12	473:13 476:12	321:1 323:3
88:3 89:21	433:2 492:19	521:18,24	337:13 338:22
90:14 93:21	493:6	522:9	339:4 342:6
99:21 111:13	trying 115:2	tuesday 1:15	348:23 360:24
112:6 115:6	177:17 189:10	2:8	369:4 374:6
123:3 125:20	195:5 318:10	tumors 10:8	399:22 400:15
125:21 135:4	328:16 333:1	96:17 140:13	405:8 408:2
172:16,18	384:9 397:19	141:8,24	501:13 506:9
174:10,14	444:10 458:10	144:15 145:8	510:18,22
176:2 183:5	482:13 491:4	145:11,16,21	515:15 521:5
187:23 199:21	494:1 508:4	146:1 183:9	524:10
199:23 205:9	527:5,5	299:5 304:5	turning 100:12
205:11 308:3,4	tsca 11:14	325:22 328:22	172:6 336:19
308:7 310:10	tubal 126:4	334:17 335:1	523:18
314:4,6 331:2	184:10,24	337:5,19,22	tweaked 414:23
336:11 347:19	185:2,6,7,11,12	430:7,20	two 14:19 15:18
351:3 367:15	185:20 256:7	431:18 506:13	15:21 16:1
368:4 369:13	335:16 344:8	506:23 507:2	23:20 46:24
369:24 380:18	344:12 346:15	509:13 510:2	47:2,9 53:16
386:16 410:2	346:24 412:5	510:10,13	59:24 61:14
429:15 430:24	413:8 414:2	turn 49:13 52:8	62:3 65:7,14
433:11 434:5	433:5 450:13	61:5 85:17	116:11 121:13
436:24 447:12	456:2	86:18 92:24	121:24 151:7
448:2 464:13	tube 7:7 228:7	94:16 96:5	169:18 181:4
464:18 466:17	271:11 272:16	126:14,17	189:8 208:14
472:18 475:10	416:21	129:20 131:3	231:12 250:1
476:3 479:11	tubes 146:6	131:20 133:15	252:16 265:1
485:18 489:14	227:11,16,20	134:1 162:4	281:13,15
489:14 507:4	227:24 228:3	163:19 167:19	322:18 338:20
512:18 538:8	228:10 370:22	171:14 174:4	340:9 351:17
	C - 11 T-	chnologies	

Document 33008-56 PageID: 211454

[two - unexposed]

Page 105

351:23 352:11	252:19 271:6	395:19	understand
352:12,16	272:9 273:22	uncontrolled	15:5 18:16
356:4,5,17	276:13 317:2	258:14	29:16 57:14
363:20 365:2	321:7 323:6	under 11:12	65:24 66:4
370:5,6 374:3	334:8,10	43:6 48:19	73:13,18
394:11 401:7	335:20 337:12	83:23 84:1	136:18 165:5
428:11 437:20	338:8 340:13	95:23 108:24	165:15 179:4
440:20 489:10	341:14 342:2,7	113:3 135:6,7	198:5 239:8
type 22:1,14	343:18 350:3	163:20 172:7	251:16 274:23
23:3 187:4	357:7 362:3	179:1 182:2	286:11 315:1,5
206:14 209:4	369:6 370:19	187:12 255:5	362:10,13
386:19 401:24	374:7,10	271:3 273:3,12	394:20,22
508:23	385:13 398:5	326:7 329:11	397:15 412:21
types 207:4	400:2 405:12	350:11,22	413:13,14
222:21	409:18,20	352:20 367:7	434:2,3 479:19
typically 25:23	422:24 445:22	369:5 379:14	526:14 536:11
531:21	455:20 458:16	406:10 410:24	understanding
u	485:7 486:7,19	458:15 471:12	22:24 57:20
u.s. 40:8 192:22	490:9 498:9	483:10,11,15	65:9 84:11
265:15 369:9	515:18 516:4	486:5 487:9	85:11 141:9
uh 42:11,16	519:14 521:7	501:15 511:7	151:16 252:6
52:10 61:4	521:20	538:1,4,12	284:21 435:21
77:19 81:23	ultimate 106:6	underestimate	467:3 533:9
82:14 86:19	520:11	512:18	538:11
95:18 96:7,11	ultimately 58:2	underestimated	understood
98:15,21	179:21 185:10	486:23	27:23 65:20
100:18 106:17	289:21 440:4	underestimates	110:9 140:14
111:12 124:14	unable 512:11	302:18	145:17 186:15
126:18 130:2	unanswerable	underestimati	364:24
155:8 163:22	394:16	49:4 325:5	underwear
167:1,20	unaware 62:12	undergone	423:2
177:13 188:18	uncertainty	356:6,18	unexplained
188:21,21	364:21 400:24	underlie 138:1	24:5 265:6
212:24 221:5	402:6 403:8,11	underreport	unexposed
242:2 252:15	unclear 283:6	174:8	128:19,20
272.2 232.13	284:7 317:10		298:7,11 299:9

[unexposed - use]

Page 106

			C
299:10,12	unreasonable	33:23 34:19	244:1 246:18
300:13	367:22 417:19	42:3 58:6,9,13	250:7 251:7
unfair 202:15	483:16 486:6	58:24 65:21	258:15 261:7
274:24 359:10	487:10 519:20	68:16 70:23	263:10 290:13
359:16	unrecognized	80:18,19 82:16	291:15 299:18
unfortunately	320:2	83:6,8 88:8,16	300:2,20 302:7
231:2	unrelated	91:16,18,21,24	306:17 307:2,4
unidentified	149:21	95:24 101:17	307:9,15,18
130:6 132:4	unreliable	102:5,15	316:13 323:11
unit 486:18	233:1	113:18,24	323:17,24
united 1:1	unsophisticated	114:22 122:13	324:10,13
224:5 411:17	375:21 376:17	130:14 140:16	325:19 327:11
480:15 525:21	440:13,15	141:10,21	328:4,18
university	473:12	142:6,7 143:6	329:18 331:21
16:15 17:11	unspecified	143:16 145:7	334:14 337:2
18:23 21:16,18	508:13	145:20 147:1	337:11,17,20
21:23 22:15	unusual 473:1	148:12,14	342:18 343:9
23:4,9 24:1,19	update 270:11	149:21 150:10	347:9 350:6
24:22 25:16,19	273:23	151:2,21 152:9	353:23 356:15
25:23 26:3 69:6	updates 273:4	152:14,18,22	363:16,21
80:2,6 189:21	273:13	153:1,22,23	366:21,23
190:1,6,12	upper 127:13	154:4,20 155:9	369:10,21
191:4 211:12	280:16 285:11	155:10 156:23	375:6 380:14
211:15 276:22	285:22 312:10	156:24 158:2	382:10,12
394:4,4 438:9	312:12 347:22	159:16 165:3	384:17 386:17
unknown 136:1	361:3	168:2,5,20	386:18,19
155:23 156:3,7	urinary 265:7	171:21 174:6	390:9 407:24
316:4 357:11	urological 24:7	177:17 181:7,7	410:9 412:4,7
unmeasured	25:18 265:9	181:11 183:2	412:10,15
130:13,19	use 6:8,11,18	184:2 185:6,8	414:11 416:10
unpatent	7:14,21 8:4,18	186:11,18,24	420:4,13 422:8
411:21 412:16	8:20 9:2,7,11	188:23 189:12	422:20 425:2
412:18 413:7	10:4 11:5,12	192:24 193:12	433:4,24 434:1
unpublished	27:6,11 28:1,4	209:11 212:3	434:10,24
284:17 286:12	28:23 29:1,23	212:14 229:12	447:6 453:8
286:14 287:8	31:16,24 33:1,9	230:20 235:14	456:4 463:16

[use - voice]

Page 107

477:24 480:19	434:9 441:5	vaginal 115:24	verification
483:19 498:12	458:5,10	146:14 322:1	441:19
498:13 500:11	505:22,23	vague 38:12	version 7:10
503:24 504:10	506:4 527:7	219:8 266:6	270:3
504:19,21,22	useful 364:1	394:15 396:10	versus 17:19
504:23 505:19	users 87:10	450:3	61:3 62:6 160:5
506:6 507:2,11	104:16 107:9	valid 104:14,23	169:5 227:21
510:1,9,15	125:17 149:20	105:2,15 107:7	237:4 371:14
511:22 517:3,5	302:23 348:4	231:4 233:13	382:11 518:16
518:8,20	386:16,17	254:20 260:1	520:15
523:22,23	504:12,14	364:19	vickery 1:23
524:23 527:24	uses 5:23 6:1	validates	2:21 539:3,21
536:2	10:15 485:12	388:15	view 130:16
used 31:20	using 50:17	validity 236:24	147:14 148:20
78:23 86:13	116:14 130:17	338:14 512:4	152:14 154:2
91:11 97:7	154:23 166:2	value 153:20	187:9 189:17
102:6,7 133:7	168:21 189:18	236:19 312:4	225:3,24 237:4
141:7 146:5,13	196:12 216:16	312:15 313:14	268:10 324:4
149:6,23	312:4 332:9	314:2,3,6	330:10 347:23
154:21 167:22	353:7 378:17	362:23 364:10	373:13 378:21
169:3 184:24	405:19 406:14	364:14 371:12	388:11 412:8
207:7 209:14	414:6 415:20	375:2 486:23	412:13 435:6
209:17,20,22	426:9 436:23	values 363:21	452:15 453:5
210:3 223:12	463:13 496:1	364:7,19,23	453:15 533:15
229:5 232:6	506:1 507:15	366:7	viewed 84:9
233:18 235:15	508:2	variability	85:7 408:8
241:11 249:18	usually 34:2	402:11	views 428:14
282:7 284:14	404:22 520:9	variables 298:4	437:6
310:11 312:18	uterine 11:6	variations	virtually
334:15 335:1	147:1,2 478:1	261:15	230:12
336:17 337:3	v	various 111:10	visited 205:6
353:21 375:17	v 3:6	115:13 141:1	vitae 5:12 42:19
386:19 390:23		305:23	77:12,12,13
396:17 403:1	vagina 264:3	varying 169:6	voice 223:1
414:1 431:22	423:4	verbatim 539:8	299:15
432:4 433:17			
		ahnalagias	1

[volume - wentzensen's]

Page 108

			_
volume 209:19	426:12 431:2	146:20 153:5	web 395:7
226:4,10,14,16	432:14 474:10	162:16 232:12	website 7:1
vouching	485:5 495:5	241:12 244:20	245:18,24
478:24	498:4 499:18	252:7 280:19	246:14 266:15
vulnerable	520:5 526:18	301:15 305:14	270:4 395:8
151:13	527:23 528:8	311:20 314:19	396:6 504:11
vulvar 24:6	wanted 162:6	315:8,13,16	websites 394:11
265:6	239:5,18	317:10 320:7	394:11 396:3,9
W	245:17 293:9	327:8 338:3	week 25:22
wait 30:8 32:8	344:18 436:14	367:9 368:8,9	53:1,2,5,18
61:23 97:10	456:17 532:2	382:6 383:2	56:3 151:9
133:17 177:10	wants 123:12	401:14 405:2	154:22 155:16
274:6 293:10	255:21	414:19 420:13	189:8,16
420:11 482:16	warned 331:24	460:16,23	297:19,19
520:5	warning 96:18	479:16 486:11	298:6,12 517:6
waiting 258:4,5	250:11,15	493:7 494:2,19	517:9 518:12
waived 536:16	253:22 254:11	509:8,9 518:22	518:16,24
walk 234:5	263:19 332:12	ways 135:13	weigh 220:13
want 13:21	525:17,17	340:19,19	weight 236:18
34:6 44:12	526:2	we've 47:1	447:6,11
64:18 76:7 98:8	warnings 250:7	55:11 74:3	weinberg 421:1
105:23 109:23	463:15 524:18	76:13 131:7	weiss 4:4 10:11
123:23 165:13	524:21	302:14 304:18	80:6 333:8
168:18 178:24	warrant 228:13	312:1 346:6,8	334:11 335:22
199:11 216:10	442:13 443:9	386:13 392:20	506:10
216:11 228:1	warranted	411:19 466:1	weiss's 418:10
232:24 241:14	336:4,14 535:9	weak 84:10	went 58:17
247:10 256:21	washington	85:9,22 93:11	166:5 269:15
274:17 276:11	2:17 3:17 69:6	96:16 102:24	269:16 291:5
292:20,22	80:6 276:22	103:4,9,11	436:18,19
293:7,16	watching 257:8	130:9 441:22	437:5 457:12
302:12 332:13	water 19:21	442:9 462:5	528:23 531:24
341:12 345:19	way 25:15 34:1	weaker 316:7	534:10
345:23 397:13	70:19 73:23	weakness 87:2	wentzensen's
421:18,23	74:1 83:3,4	weaknesses	385:6
,	102:2 115:9	236:16	

[whi - witness] Page 109

whi 237:17 90:5 92:19 196:10 197:22 329:9,22 302:10,17 97:15 98:15,21 198:17 199:8 332:19 334:23 303:2 325:7 100:9,22 199:14 203:22 339:22 340:2 width 188:5 101:22 102:18 204:6 210:14 341:14,17 403:12 103:11 105:1 214:3 217:9 343:22 345:22 william 469:3 107:2,11 219:9 220:11 350:3 351:11 470:5 108:22 109:12 222:11 223:2 351:14,19,24 wise 24:23 109:19 111:15 223:11 225:14 355:3,7,22 withdraw 120:9 121:19 220:12,23 372:9,13,17,19 115:10 123:14 123:2 124:20 242:8,13,16 376:4,13 379:8 123:15 124:7 126:24 127:4,9 243:11,21 380:17 383:9 388:18 132:14 133:4 248:17,21 384:4,20,23 withdrawal 135:3 136:13 249:2,7 252:10 394:22 396:13 75:12 137:1,10 138:5 258:4 262:23 397:17,21 withdrawal 138:16,20 263:4,				•
303:2 325:7 100:9,22 199:14 203:22 339:22 340:2 width 188:5 101:22 102:18 204:6 210:14 341:14,17 403:12 103:11 105:1 214:3 217:9 343:22 345:22 william 469:3 107:2,11 219:9 220:11 350:3 351:11 470:5 108:22 109:12 222:11 223:2 351:14,19,24 wise 24:23 109:19 111:15 223:12 22:1 355:3,7,22 wish 127:12 117:1,14,19 225:23 23:24 360:18 365:17 152:1 118:7 119:4 239:10,21 365:24 368:20 withdraw 120:9 121:19 240:12,23 372:9,13,17,19 115:10 123:14 123:2 124:20 242:8,13,16 376:4,13 379:8 123:15 124:7 126:24 127:4,9 243:11,21 380:17 383:9 38:18 132:14 133:4 248:17,21 384:4,20,23 withdrawal 135:3 136:13 249:2,7 252:10 394:22 396:13 75:12 137:1,10 138:5 258:4 262:23 397:17,21 withdrawn 138:16,20 263:4,15,24 398:5 401:5 75:8,	whi 237:17	90:5 92:19	196:10 197:22	329:9,22
width 188:5 101:22 102:18 204:6 210:14 341:14,17 403:12 103:11 105:1 214:3 217:9 343:22 345:22 william 469:3 107:2,11 219:9 220:11 350:3 351:11 470:5 108:22 109:12 222:11 223:2 351:14,19,24 wise 24:23 109:19 111:15 223:11 225:14 355:3,7,22 wish 127:12 117:1,14,19 225:23 232:4 360:18 365:17 152:1 118:7 119:4 239:10,21 365:24 368:20 withdraw 120:9 121:19 240:12,23 372:9,13,17,19 115:10 123:14 123:2 124:20 242:8,13,16 376:4,13 379:8 123:15 124:7 126:24 127:4,9 243:11,21 380:17 383:9 388:18 132:14 133:4 248:17,21 384:4,20,23 withdrawal 135:3 136:13 249:2,7 252:10 394:22 396:13 75:12 137:1,10 138:5 258:4 262:23 397:17,21 withdrawn 138:16,20 263:4,15,24 398:5 401:5 75:8,16 141:13 142:23 265:21 266:7<	302:10,17	97:15 98:15,21	198:17 199:8	332:19 334:23
403:12 103:11 105:1 214:3 217:9 343:22 345:22 william 469:3 107:2,11 219:9 220:11 350:3 351:11 470:5 108:22 109:12 222:11 223:2 351:14,19,24 wise 24:23 109:19 111:15 223:11 225:14 355:37,22 wish 127:12 117:1,14,19 225:23 23:4 360:18 365:17 152:1 118:7 119:4 239:10,21 365:24 368:20 withdraw 120:9 121:19 240:12,23 372:9,13,17,19 115:10 123:14 123:2 124:20 242:8,13,16 376:4,13 379:8 123:15 124:7 126:24 127:4,9 243:11,21 380:17 383:9 388:18 132:14 133:4 248:17,21 384:4,20,23 withdrawal 135:3 136:13 249:2,7 252:10 394:22 396:13 75:12 137:1,10 138:5 258:4 262:23 397:17,21 withdrawn 138:16,20 263:4,15,24 398:5 401:5 75:8,16 141:13 142:23 265:21 266:7 402:20 405:24 witness 14:9,12 146:9 148:17 266:10 2	303:2 325:7	100:9,22	199:14 203:22	339:22 340:2
william 469:3 107:2,11 219:9 220:11 350:3 351:11 470:5 108:22 109:12 222:11 223:2 351:14,19,24 wise 24:23 109:19 111:15 223:11 225:14 355:3,7,22 wish 127:12 118:7 119:4 239:10,21 365:24 368:20 withdraw 120:9 121:19 240:12,23 372:9,13,17,19 115:10 123:14 123:2 124:20 242:8,13,16 376:4,13 379:8 123:15 124:7 126:24 127:4,9 243:11,21 380:17 383:9 388:18 132:14 133:4 248:17,21 384:4,20,23 withdrawal 135:3 136:13 249:2,7 252:10 394:22 396:13 75:12 137:1,10 138:5 258:4 262:23 397:17,21 withdrawn 138:16,20 263:4,15,24 398:5 401:5 75:8,16 141:13 142:23 265:21 266:7 402:20 405:24 witness 14:9,12 146:9 148:17 266:10 267:5 408:24 410:12 16:20 17:7,12 149:16 150:14 267:20,22 413:1 418:22 18:17 22:3 150:16 151:5	width 188:5	101:22 102:18	204:6 210:14	341:14,17
470:5 108:22 109:12 222:11 223:2 351:14,19,24 wise 24:23 109:19 111:15 223:11 225:14 355:3,7,22 wish 127:12 117:1,14,19 225:23 232:4 360:18 365:17 152:1 118:7 119:4 239:10,21 365:24 368:20 withdraw 120:9 121:19 240:12,23 372:9,13,17,19 115:10 123:14 123:2 124:20 242:8,13,16 376:4,13 379:8 123:15 124:7 126:24 127:4,9 243:11,21 380:17 383:9 388:18 132:14 133:4 248:17,21 384:4,20,23 withdrawal 135:3 136:13 249:2,7 252:10 394:22 396:13 75:12 137:1,10 138:5 258:4 262:23 397:17,21 withdrawn 138:16,20 263:4,15,24 398:5 401:5 75:8,16 141:13 142:23 265:21 266:7 402:20 405:24 witness 14:9,12 146:9 148:17 266:10 267:5 408:24 410:12 16:20 17:7,12 149:16 150:14 267:20,22 413:1 418:22 18:17 22:3 150:16 151:5 269:4,8 270:7 419:5,15 421:9 <t< td=""><td>403:12</td><td>103:11 105:1</td><td>214:3 217:9</td><td>343:22 345:22</td></t<>	403:12	103:11 105:1	214:3 217:9	343:22 345:22
wise 24:23 109:19 111:15 223:11 225:14 355:3,7,22 wish 127:12 117:1,14,19 225:23 232:4 360:18 365:17 152:1 118:7 119:4 239:10,21 365:24 368:20 withdraw 120:9 121:19 240:12,23 372:9,13,17,19 115:10 123:14 123:2 124:20 242:8,13,16 376:4,13 379:8 123:15 124:7 126:24 127:4,9 243:11,21 380:17 383:9 388:18 132:14 133:4 248:17,21 384:4,20,23 withdrawal 135:3 136:13 249:2,7 252:10 394:22 396:13 75:12 137:1,10 138:5 258:4 262:23 397:17,21 withdrawn 138:16,20 263:4,15,24 398:5 401:5 75:8,16 141:13 142:23 265:21 266:7 402:20 405:24 witness 14:9,12 146:9 148:17 266:10 267:5 408:24 410:12 16:20 17:7,12 149:16 150:14 267:20,22 413:1 418:22 26:13 27:17 152:2,13 156:1 271:20 272:20 423:10,23 32:7,17 38:13 159:19 160:11 273:15	william 469:3	107:2,11	219:9 220:11	350:3 351:11
wish 127:12 117:1,14,19 225:23 232:4 360:18 365:17 152:1 118:7 119:4 239:10,21 365:24 368:20 withdraw 120:9 121:19 240:12,23 372:9,13,17,19 115:10 123:14 123:2 124:20 242:8,13,16 376:4,13 379:8 123:15 124:7 126:24 127:4,9 243:11,21 380:17 383:9 388:18 132:14 133:4 248:17,21 384:4,20,23 withdrawal 135:3 136:13 249:2,7 252:10 394:22 396:13 75:12 137:1,10 138:5 258:4 262:23 397:17,21 withdrawn 138:16,20 263:4,15,24 398:5 401:5 75:8,16 141:13 142:23 265:21 266:7 402:20 405:24 witness 14:9,12 146:9 148:17 266:10 267:5 408:24 410:12 16:20 17:7,12 149:16 150:14 267:20,22 413:14 18:22 26:13 27:17 152:2,13 156:1 271:20 272:20 423:10,23 32:7,17 38:13 159:19 160:11 273:15 275:1 424:20 425:18 40:11 41:7,20 160:18 161:21 277:10 278:7	470:5	108:22 109:12	222:11 223:2	351:14,19,24
152:1 118:7 119:4 239:10,21 365:24 368:20 withdraw 120:9 121:19 240:12,23 372:9,13,17,19 115:10 123:14 123:2 124:20 242:8,13,16 376:4,13 379:8 123:15 124:7 126:24 127:4,9 243:11,21 380:17 383:9 388:18 132:14 133:4 248:17,21 384:4,20,23 withdrawal 135:3 136:13 249:2,7 252:10 394:22 396:13 75:12 137:1,10 138:5 258:4 262:23 397:17,21 withdrawn 138:16,20 263:4,15,24 398:5 401:5 75:8,16 141:13 142:23 265:21 266:7 402:20 405:24 witness 14:9,12 146:9 148:17 266:10 267:5 408:24 410:12 16:20 17:7,12 149:16 150:14 267:20,22 413:1 418:22 18:17 22:3 150:16 151:5 269:4,8 270:7 419:5,15 421:9 26:13 27:17 152:2,13 156:1 271:20 272:20 423:10,23 32:7,17 38:13 159:19 160:11 273:15 275:1 424:20 425:18 40:11 41:7,20 160:18 161:21 277:10 278:7 426:	wise 24:23	109:19 111:15	223:11 225:14	355:3,7,22
withdraw 120:9 121:19 240:12,23 372:9,13,17,19 115:10 123:14 123:2 124:20 242:8,13,16 376:4,13 379:8 123:15 124:7 126:24 127:4,9 243:11,21 380:17 383:9 388:18 132:14 133:4 248:17,21 384:4,20,23 withdrawal 135:3 136:13 249:2,7 252:10 394:22 396:13 75:12 137:1,10 138:5 258:4 262:23 397:17,21 withdrawn 138:16,20 263:4,15,24 398:5 401:5 75:8,16 141:13 142:23 265:21 266:7 402:20 405:24 witness 14:9,12 146:9 148:17 266:10 267:5 408:24 410:12 16:20 17:7,12 149:16 150:14 267:20,22 413:1 418:22 18:17 22:3 150:16 151:5 269:4,8 270:7 419:5,15 421:9 26:13 27:17 152:2,13 156:1 271:20 272:20 423:10,23 32:7,17 38:13 159:19 160:11 273:15 275:1 424:20 425:18 40:11 41:7,20 160:18 161:21 277:10 278:7 426:2 427:11 42:11,16 44:11 162:14,19,23 279:4 284:24 428:8,20<	wish 127:12	117:1,14,19	225:23 232:4	360:18 365:17
115:10 123:14 123:2 124:20 242:8,13,16 376:4,13 379:8 123:15 124:7 126:24 127:4,9 243:11,21 380:17 383:9 388:18 132:14 133:4 248:17,21 384:4,20,23 withdrawal 135:3 136:13 249:2,7 252:10 394:22 396:13 75:12 137:1,10 138:5 258:4 262:23 397:17,21 withdrawn 138:16,20 263:4,15,24 398:5 401:5 75:8,16 141:13 142:23 265:21 266:7 402:20 405:24 witness 14:9,12 146:9 148:17 266:10 267:5 408:24 410:12 16:20 17:7,12 149:16 150:14 267:20,22 413:1 418:22 18:17 22:3 150:16 151:5 269:4,8 270:7 419:5,15 421:9 26:13 27:17 152:2,13 156:1 271:20 272:20 423:10,23 32:7,17 38:13 159:19 160:11 273:15 275:1 424:20 425:18 40:11 41:7,20 160:18 161:21 277:10 278:7 426:2 427:11 42:11,16 44:11 162:14,19,23 279:4 284:24 428:8,20 45:2 46:7 56:7 163:2 164:19 285:5,20 429:10,18<	152:1	118:7 119:4	239:10,21	365:24 368:20
123:15 124:7 126:24 127:4,9 243:11,21 380:17 383:9 388:18 132:14 133:4 248:17,21 384:4,20,23 withdrawal 135:3 136:13 249:2,7 252:10 394:22 396:13 75:12 137:1,10 138:5 258:4 262:23 397:17,21 withdrawn 138:16,20 263:4,15,24 398:5 401:5 75:8,16 141:13 142:23 265:21 266:7 402:20 405:24 witness 14:9,12 146:9 148:17 266:10 267:5 408:24 410:12 16:20 17:7,12 149:16 150:14 267:20,22 413:1 418:22 18:17 22:3 150:16 151:5 269:4,8 270:7 419:5,15 421:9 26:13 27:17 152:2,13 156:1 271:20 272:20 423:10,23 32:7,17 38:13 159:19 160:11 273:15 275:1 424:20 425:18 40:11 41:7,20 160:18 161:21 277:10 278:7 426:2 427:11 42:11,16 44:11 162:14,19,23 279:4 284:24 428:8,20 45:2 46:7 56:7 163:2 164:19 285:5,20 429:10,18 56:11 57:3,6 166:8 167:1 287:24 288:21 432:7 433:14 <td>withdraw</td> <td>120:9 121:19</td> <td>240:12,23</td> <td>372:9,13,17,19</td>	withdraw	120:9 121:19	240:12,23	372:9,13,17,19
388:18 132:14 133:4 248:17,21 384:4,20,23 withdrawal 135:3 136:13 249:2,7 252:10 394:22 396:13 75:12 137:1,10 138:5 258:4 262:23 397:17,21 withdrawn 138:16,20 263:4,15,24 398:5 401:5 75:8,16 141:13 142:23 265:21 266:7 402:20 405:24 witness 14:9,12 146:9 148:17 266:10 267:5 408:24 410:12 16:20 17:7,12 149:16 150:14 267:20,22 413:1 418:22 18:17 22:3 150:16 151:5 269:4,8 270:7 419:5,15 421:9 26:13 27:17 152:2,13 156:1 271:20 272:20 423:10,23 32:7,17 38:13 159:19 160:11 273:15 275:1 424:20 425:18 40:11 41:7,20 160:18 161:21 277:10 278:7 426:2 427:11 42:11,16 44:11 162:14,19,23 279:4 284:24 428:8,20 45:2 46:7 56:7 163:2 164:19 285:5,20 429:10,18 56:11 57:3,6 166:8 167:1 287:24 288:21 432:7 433:14 58:1,3,5,7 59:3 171:6 175:18 289:10 291:4	115:10 123:14	123:2 124:20	242:8,13,16	376:4,13 379:8
withdrawal 135:3 136:13 249:2,7 252:10 394:22 396:13 75:12 137:1,10 138:5 258:4 262:23 397:17,21 withdrawn 138:16,20 263:4,15,24 398:5 401:5 75:8,16 141:13 142:23 265:21 266:7 402:20 405:24 witness 14:9,12 146:9 148:17 266:10 267:5 408:24 410:12 16:20 17:7,12 149:16 150:14 267:20,22 413:1 418:22 18:17 22:3 150:16 151:5 269:4,8 270:7 419:5,15 421:9 26:13 27:17 152:2,13 156:1 271:20 272:20 423:10,23 32:7,17 38:13 159:19 160:11 273:15 275:1 424:20 425:18 40:11 41:7,20 160:18 161:21 277:10 278:7 426:2 427:11 42:11,16 44:11 162:14,19,23 279:4 284:24 428:8,20 45:2 46:7 56:7 163:2 164:19 285:5,20 429:10,18 56:11 57:3,6 166:8 167:1 287:24 288:21 432:7 433:14 58:1,3,5,7 59:3 171:6 175:18 289:10 291:4 434:8 435:12 68:2,15 70:7,22 180:12,16,20 301:8 306:9	123:15 124:7	126:24 127:4,9	243:11,21	380:17 383:9
75:12 137:1,10 138:5 258:4 262:23 397:17,21 withdrawn 138:16,20 263:4,15,24 398:5 401:5 75:8,16 141:13 142:23 265:21 266:7 402:20 405:24 witness 14:9,12 146:9 148:17 266:10 267:5 408:24 410:12 16:20 17:7,12 149:16 150:14 267:20,22 413:1 418:22 18:17 22:3 150:16 151:5 269:4,8 270:7 419:5,15 421:9 26:13 27:17 152:2,13 156:1 271:20 272:20 423:10,23 32:7,17 38:13 159:19 160:11 273:15 275:1 424:20 425:18 40:11 41:7,20 160:18 161:21 277:10 278:7 426:2 427:11 42:11,16 44:11 162:14,19,23 279:4 284:24 428:8,20 45:2 46:7 56:7 163:2 164:19 285:5,20 429:10,18 56:11 57:3,6 166:8 167:1 287:24 288:21 432:7 433:14 58:1,3,5,7 59:3 171:6 175:18 289:10 291:4 434:8 435:12 64:1,7,9 66:23 176:3 178:17 293:14 296:5 436:2 437:3,21 67:4,11,15,16 179:10,24 296:17 300:9<	388:18	132:14 133:4	248:17,21	384:4,20,23
withdrawn 138:16,20 263:4,15,24 398:5 401:5 75:8,16 141:13 142:23 265:21 266:7 402:20 405:24 witness 14:9,12 146:9 148:17 266:10 267:5 408:24 410:12 16:20 17:7,12 149:16 150:14 267:20,22 413:1 418:22 18:17 22:3 150:16 151:5 269:4,8 270:7 419:5,15 421:9 26:13 27:17 152:2,13 156:1 271:20 272:20 423:10,23 32:7,17 38:13 159:19 160:11 273:15 275:1 424:20 425:18 40:11 41:7,20 160:18 161:21 277:10 278:7 426:2 427:11 42:11,16 44:11 162:14,19,23 279:4 284:24 428:8,20 45:2 46:7 56:7 163:2 164:19 285:5,20 429:10,18 56:11 57:3,6 166:8 167:1 287:24 288:21 432:7 433:14 58:1,3,5,7 59:3 171:6 175:18 289:10 291:4 434:8 435:12 64:1,7,9 66:23 176:3 178:17 293:14 296:5 436:2 437:3,21 67:4,11,15,16 179:10,24 296:17 300:9 437:24 438:2 68:2,15 70:7,22 180:12,16,20 30	withdrawal	135:3 136:13	249:2,7 252:10	394:22 396:13
75:8,16 141:13 142:23 265:21 266:7 402:20 405:24 witness 14:9,12 146:9 148:17 266:10 267:5 408:24 410:12 16:20 17:7,12 149:16 150:14 267:20,22 413:1 418:22 18:17 22:3 150:16 151:5 269:4,8 270:7 419:5,15 421:9 26:13 27:17 152:2,13 156:1 271:20 272:20 423:10,23 32:7,17 38:13 159:19 160:11 273:15 275:1 424:20 425:18 40:11 41:7,20 160:18 161:21 277:10 278:7 426:2 427:11 42:11,16 44:11 162:14,19,23 279:4 284:24 428:8,20 45:2 46:7 56:7 163:2 164:19 285:5,20 429:10,18 56:11 57:3,6 166:8 167:1 287:24 288:21 432:7 433:14 58:1,3,5,7 59:3 171:6 175:18 289:10 291:4 434:8 435:12 64:1,7,9 66:23 176:3 178:17 293:14 296:5 436:2 437:3,21 67:4,11,15,16 179:10,24 296:17 300:9 437:24 438:2 68:2,15 70:7,22 180:23 181:14 311:19 313:4 441:2,10 72:13,16 73:1,9 181:20 183:4	75:12	137:1,10 138:5	258:4 262:23	397:17,21
witness 14:9,12 146:9 148:17 266:10 267:5 408:24 410:12 16:20 17:7,12 149:16 150:14 267:20,22 413:1 418:22 18:17 22:3 150:16 151:5 269:4,8 270:7 419:5,15 421:9 26:13 27:17 152:2,13 156:1 271:20 272:20 423:10,23 32:7,17 38:13 159:19 160:11 273:15 275:1 424:20 425:18 40:11 41:7,20 160:18 161:21 277:10 278:7 426:2 427:11 42:11,16 44:11 162:14,19,23 279:4 284:24 428:8,20 45:2 46:7 56:7 163:2 164:19 285:5,20 429:10,18 56:11 57:3,6 166:8 167:1 287:24 288:21 432:7 433:14 58:1,3,5,7 59:3 171:6 175:18 289:10 291:4 434:8 435:12 64:1,7,9 66:23 176:3 178:17 293:14 296:5 436:2 437:3,21 67:4,11,15,16 179:10,24 296:17 300:9 437:24 438:2 68:2,15 70:7,22 180:12,16,20 301:8 306:9 439:4 440:18 71:3,9,13 72:5 180:23 181:14 311:19 313:4 441:2,10 72:13,16 73:1,9 181:20 183:4	withdrawn	138:16,20	263:4,15,24	398:5 401:5
16:20 17:7,12 149:16 150:14 267:20,22 413:1 418:22 18:17 22:3 150:16 151:5 269:4,8 270:7 419:5,15 421:9 26:13 27:17 152:2,13 156:1 271:20 272:20 423:10,23 32:7,17 38:13 159:19 160:11 273:15 275:1 424:20 425:18 40:11 41:7,20 160:18 161:21 277:10 278:7 426:2 427:11 42:11,16 44:11 162:14,19,23 279:4 284:24 428:8,20 45:2 46:7 56:7 163:2 164:19 285:5,20 429:10,18 56:11 57:3,6 166:8 167:1 287:24 288:21 432:7 433:14 58:1,3,5,7 59:3 171:6 175:18 289:10 291:4 434:8 435:12 64:1,7,9 66:23 176:3 178:17 293:14 296:5 436:2 437:3,21 67:4,11,15,16 179:10,24 296:17 300:9 437:24 438:2 68:2,15 70:7,22 180:12,16,20 301:8 306:9 439:4 440:18 71:3,9,13 72:5 180:23 181:14 311:19 313:4 441:2,10 72:13,16 73:1,9 181:20 183:4 313:21 315:12 442:21 444:14 73:15,21 74:22 184:8 185:15 317:16 320:14 445:3,10,17 75:16 76:23 187:3 192:8 </td <td>75:8,16</td> <td>141:13 142:23</td> <td>265:21 266:7</td> <td>402:20 405:24</td>	75:8,16	141:13 142:23	265:21 266:7	402:20 405:24
18:17 22:3 150:16 151:5 269:4,8 270:7 419:5,15 421:9 26:13 27:17 152:2,13 156:1 271:20 272:20 423:10,23 32:7,17 38:13 159:19 160:11 273:15 275:1 424:20 425:18 40:11 41:7,20 160:18 161:21 277:10 278:7 426:2 427:11 42:11,16 44:11 162:14,19,23 279:4 284:24 428:8,20 45:2 46:7 56:7 163:2 164:19 285:5,20 429:10,18 56:11 57:3,6 166:8 167:1 287:24 288:21 432:7 433:14 58:1,3,5,7 59:3 171:6 175:18 289:10 291:4 434:8 435:12 64:1,7,9 66:23 176:3 178:17 293:14 296:5 436:2 437:3,21 67:4,11,15,16 179:10,24 296:17 300:9 437:24 438:2 68:2,15 70:7,22 180:12,16,20 301:8 306:9 439:4 440:18 71:3,9,13 72:5 180:23 181:14 311:19 313:4 441:2,10 72:13,16 73:1,9 181:20 183:4 313:21 315:12 442:21 444:14 73:15,21 74:22 184:8 185:15 317:16 320:14 445:3,10,17 75:16 76:23 187:3 192:8 322:9 324:15 446:12 447:15	witness 14:9,12	146:9 148:17	266:10 267:5	408:24 410:12
26:13 27:17 152:2,13 156:1 271:20 272:20 423:10,23 32:7,17 38:13 159:19 160:11 273:15 275:1 424:20 425:18 40:11 41:7,20 160:18 161:21 277:10 278:7 426:2 427:11 42:11,16 44:11 162:14,19,23 279:4 284:24 428:8,20 45:2 46:7 56:7 163:2 164:19 285:5,20 429:10,18 56:11 57:3,6 166:8 167:1 287:24 288:21 432:7 433:14 58:1,3,5,7 59:3 171:6 175:18 289:10 291:4 434:8 435:12 64:1,7,9 66:23 176:3 178:17 293:14 296:5 436:2 437:3,21 67:4,11,15,16 179:10,24 296:17 300:9 437:24 438:2 68:2,15 70:7,22 180:12,16,20 301:8 306:9 439:4 440:18 71:3,9,13 72:5 180:23 181:14 311:19 313:4 441:2,10 72:13,16 73:1,9 181:20 183:4 313:21 315:12 442:21 444:14 73:15,21 74:22 184:8 185:15 317:16 320:14 445:3,10,17 75:16 76:23 187:3 192:8 322:9 324:15 446:12 447:15	16:20 17:7,12	149:16 150:14	267:20,22	413:1 418:22
32:7,17 38:13 159:19 160:11 273:15 275:1 424:20 425:18 40:11 41:7,20 160:18 161:21 277:10 278:7 426:2 427:11 42:11,16 44:11 162:14,19,23 279:4 284:24 428:8,20 45:2 46:7 56:7 163:2 164:19 285:5,20 429:10,18 56:11 57:3,6 166:8 167:1 287:24 288:21 432:7 433:14 58:1,3,5,7 59:3 171:6 175:18 289:10 291:4 434:8 435:12 64:1,7,9 66:23 176:3 178:17 293:14 296:5 436:2 437:3,21 67:4,11,15,16 179:10,24 296:17 300:9 437:24 438:2 68:2,15 70:7,22 180:12,16,20 301:8 306:9 439:4 440:18 71:3,9,13 72:5 180:23 181:14 311:19 313:4 441:2,10 72:13,16 73:1,9 181:20 183:4 313:21 315:12 442:21 444:14 73:15,21 74:22 184:8 185:15 317:16 320:14 445:3,10,17 75:16 76:23 187:3 192:8 322:9 324:15 446:12 447:15	18:17 22:3	150:16 151:5	269:4,8 270:7	419:5,15 421:9
40:11 41:7,20 160:18 161:21 277:10 278:7 426:2 427:11 42:11,16 44:11 162:14,19,23 279:4 284:24 428:8,20 45:2 46:7 56:7 163:2 164:19 285:5,20 429:10,18 56:11 57:3,6 166:8 167:1 287:24 288:21 432:7 433:14 58:1,3,5,7 59:3 171:6 175:18 289:10 291:4 434:8 435:12 64:1,7,9 66:23 176:3 178:17 293:14 296:5 436:2 437:3,21 67:4,11,15,16 179:10,24 296:17 300:9 437:24 438:2 68:2,15 70:7,22 180:12,16,20 301:8 306:9 439:4 440:18 71:3,9,13 72:5 180:23 181:14 311:19 313:4 441:2,10 72:13,16 73:1,9 181:20 183:4 313:21 315:12 442:21 444:14 73:15,21 74:22 184:8 185:15 317:16 320:14 445:3,10,17 75:16 76:23 187:3 192:8 322:9 324:15 446:12 447:15	26:13 27:17	152:2,13 156:1	271:20 272:20	423:10,23
42:11,16 44:11 162:14,19,23 279:4 284:24 428:8,20 45:2 46:7 56:7 163:2 164:19 285:5,20 429:10,18 56:11 57:3,6 166:8 167:1 287:24 288:21 432:7 433:14 58:1,3,5,7 59:3 171:6 175:18 289:10 291:4 434:8 435:12 64:1,7,9 66:23 176:3 178:17 293:14 296:5 436:2 437:3,21 67:4,11,15,16 179:10,24 296:17 300:9 437:24 438:2 68:2,15 70:7,22 180:12,16,20 301:8 306:9 439:4 440:18 71:3,9,13 72:5 180:23 181:14 311:19 313:4 441:2,10 72:13,16 73:1,9 181:20 183:4 313:21 315:12 442:21 444:14 73:15,21 74:22 184:8 185:15 317:16 320:14 445:3,10,17 75:16 76:23 187:3 192:8 322:9 324:15 446:12 447:15	32:7,17 38:13	159:19 160:11	273:15 275:1	424:20 425:18
45:2 46:7 56:7 163:2 164:19 285:5,20 429:10,18 56:11 57:3,6 166:8 167:1 287:24 288:21 432:7 433:14 58:1,3,5,7 59:3 171:6 175:18 289:10 291:4 434:8 435:12 64:1,7,9 66:23 176:3 178:17 293:14 296:5 436:2 437:3,21 67:4,11,15,16 179:10,24 296:17 300:9 437:24 438:2 68:2,15 70:7,22 180:12,16,20 301:8 306:9 439:4 440:18 71:3,9,13 72:5 180:23 181:14 311:19 313:4 441:2,10 72:13,16 73:1,9 181:20 183:4 313:21 315:12 442:21 444:14 73:15,21 74:22 184:8 185:15 317:16 320:14 445:3,10,17 75:16 76:23 187:3 192:8 322:9 324:15 446:12 447:15	40:11 41:7,20	160:18 161:21	277:10 278:7	426:2 427:11
56:11 57:3,6 166:8 167:1 287:24 288:21 432:7 433:14 58:1,3,5,7 59:3 171:6 175:18 289:10 291:4 434:8 435:12 64:1,7,9 66:23 176:3 178:17 293:14 296:5 436:2 437:3,21 67:4,11,15,16 179:10,24 296:17 300:9 437:24 438:2 68:2,15 70:7,22 180:12,16,20 301:8 306:9 439:4 440:18 71:3,9,13 72:5 180:23 181:14 311:19 313:4 441:2,10 72:13,16 73:1,9 181:20 183:4 313:21 315:12 442:21 444:14 73:15,21 74:22 184:8 185:15 317:16 320:14 445:3,10,17 75:16 76:23 187:3 192:8 322:9 324:15 446:12 447:15	42:11,16 44:11	162:14,19,23	279:4 284:24	428:8,20
58:1,3,5,7 59:3 171:6 175:18 289:10 291:4 434:8 435:12 64:1,7,9 66:23 176:3 178:17 293:14 296:5 436:2 437:3,21 67:4,11,15,16 179:10,24 296:17 300:9 437:24 438:2 68:2,15 70:7,22 180:12,16,20 301:8 306:9 439:4 440:18 71:3,9,13 72:5 180:23 181:14 311:19 313:4 441:2,10 72:13,16 73:1,9 181:20 183:4 313:21 315:12 442:21 444:14 73:15,21 74:22 184:8 185:15 317:16 320:14 445:3,10,17 75:16 76:23 187:3 192:8 322:9 324:15 446:12 447:15	45:2 46:7 56:7	163:2 164:19	285:5,20	429:10,18
64:1,7,9 66:23 176:3 178:17 293:14 296:5 436:2 437:3,21 67:4,11,15,16 179:10,24 296:17 300:9 437:24 438:2 68:2,15 70:7,22 180:12,16,20 301:8 306:9 439:4 440:18 71:3,9,13 72:5 180:23 181:14 311:19 313:4 441:2,10 72:13,16 73:1,9 181:20 183:4 313:21 315:12 442:21 444:14 73:15,21 74:22 184:8 185:15 317:16 320:14 445:3,10,17 75:16 76:23 187:3 192:8 322:9 324:15 446:12 447:15	56:11 57:3,6	166:8 167:1	287:24 288:21	432:7 433:14
67:4,11,15,16 179:10,24 296:17 300:9 437:24 438:2 68:2,15 70:7,22 180:12,16,20 301:8 306:9 439:4 440:18 71:3,9,13 72:5 180:23 181:14 311:19 313:4 441:2,10 72:13,16 73:1,9 181:20 183:4 313:21 315:12 442:21 444:14 73:15,21 74:22 184:8 185:15 317:16 320:14 445:3,10,17 75:16 76:23 187:3 192:8 322:9 324:15 446:12 447:15	58:1,3,5,7 59:3	171:6 175:18	289:10 291:4	434:8 435:12
68:2,15 70:7,22 180:12,16,20 301:8 306:9 439:4 440:18 71:3,9,13 72:5 180:23 181:14 311:19 313:4 441:2,10 72:13,16 73:1,9 181:20 183:4 313:21 315:12 442:21 444:14 73:15,21 74:22 184:8 185:15 317:16 320:14 445:3,10,17 75:16 76:23 187:3 192:8 322:9 324:15 446:12 447:15	64:1,7,9 66:23	176:3 178:17	293:14 296:5	436:2 437:3,21
71:3,9,13 72:5 180:23 181:14 311:19 313:4 441:2,10 72:13,16 73:1,9 181:20 183:4 313:21 315:12 442:21 444:14 73:15,21 74:22 184:8 185:15 317:16 320:14 445:3,10,17 75:16 76:23 187:3 192:8 322:9 324:15 446:12 447:15	67:4,11,15,16	179:10,24	296:17 300:9	437:24 438:2
72:13,16 73:1,9 181:20 183:4 313:21 315:12 442:21 444:14 73:15,21 74:22 184:8 185:15 317:16 320:14 445:3,10,17 75:16 76:23 187:3 192:8 322:9 324:15 446:12 447:15	68:2,15 70:7,22	180:12,16,20	301:8 306:9	439:4 440:18
73:15,21 74:22 184:8 185:15 317:16 320:14 445:3,10,17 75:16 76:23 187:3 192:8 322:9 324:15 446:12 447:15	71:3,9,13 72:5	180:23 181:14	311:19 313:4	441:2,10
75:16 76:23	72:13,16 73:1,9	181:20 183:4	313:21 315:12	442:21 444:14
	73:15,21 74:22	184:8 185:15	317:16 320:14	445:3,10,17
83:15 87:17	75:16 76:23	187:3 192:8	322:9 324:15	446:12 447:15
	83:15 87:17	193:3,10	326:17 327:13	448:10 451:14

[witness - work]

Page 110

452:8,24 woman 65:19 412:3 413:6,10 518:19 519:8 453:14,23 150:2 152:5 413:10,16,18 520:4,7,12 455:7,15 307:4,15 415:13,20 521:6,9,17 456:21 457:12 449:16 416:3 429:1 word 31:20 458:8 459:9 woman's 159:9 430:21 431:18 82:3 102:7 460:13 461:16 306:6,21 433:9 434:20 126:9 157:10 462:1,17 463:9 women 6:13 436:22 447:3 200:8 232:2 463:21 464:21 28:4 81:11 452:15 453:8 359:2 484:23 465:8,16,20 126:3 130:15 453:15 455:11 wording 78:23 469:17,21 149:11,16,19 464:4 476:11 words 17:24 470:15 472:7 150:1 153:12 476:21 505:1 40:1 64:19 472:21 473:6 153:14 165:24 507:9,14 508:2 14:11 223:12 479:6 481:6,16 182:17,19 524:22 work 16:6,12 482:15,19 183:12 184:24 women's 23:17 19:9 20:13 488:8 489:17 208:18 209:4 65:14 210:7 23:5,7,10 24:9				8
455:7,15 307:4,15 415:13,20 521:6,0,17 456:21 457:12 449:16 woman's 159:9 430:21 431:18 82:3 102:7 460:13 461:16 306:6,21 433:9 434:20 126:9 157:10 462:1,17 463:9 women 6:13 436:22 447:3 200:8 232:2 463:21 464:21 28:4 81:11 452:15 453:8 359:2 484:23 466:7 468:14 130:15 146:5 456:6 463:15 wording 78:23 469:17,21 149:11,16,19 464:4 476:11 words 17:24 470:15 472:7 150:1 153:12 476:21 505:1 40:1 64:19 472:21 473:6 153:14 165:24 507:9,14 508:2 144:11 223:12 479:6 481:6,16 182:17,19 524:22 work 16:6,12 482:15,19 183:12 184:24 women's 23:17 19:9 20:13 484:13 485:1 185:6,11 24:7 25:18 65:6 21:18,21 22:22 488:8 489:17 208:18 209:4 25:14 210:7 23:5,7,10 24:9 490:4,14 209:10 211:9 211:3 265:8 24:23 25:7,18 499:2 501:17 324:22 325:8 412:9	452:8,24	woman 65:19	412:3 413:6,10	518:19 519:8
456:21 457:12 449:16 woman's 159:9 430:21 431:18 82:3 102:7 460:13 461:16 306:6,21 433:9 434:20 126:9 157:10 462:1,17 463:9 women 6:13 436:22 447:3 200:8 232:2 463:21 464:21 28:4 81:11 452:15 453:8 359:2 484:23 465:8,16,20 126:3 130:15 453:15 455:11 wording 78:23 466:7 468:14 130:15 146:5 456:6 463:15 79:23 469:17,21 149:11,16,19 464:4 476:11 words 17:24 470:15 472:7 150:1 153:12 476:21 505:1 40:1 64:19 472:21 473:6 153:14 165:24 507:9,14 508:2 144:11 223:12 473:17 475:19 168:21 169:12 508:23 52:17 529:4 479:6 481:6,16 182:17,19 524:22 work 16:6,12 488:8 489:17 208:18 209:4 65:14 210:7 23:5,7,10 24:9 490:4,14 209:10 211:9 211:3 265:8 24:23 25:7,18 499:2 501:17 324:22 325:8 412:9 30:16 41:24 502:13 513:8 331:24 332:8 30:16 41:24	453:14,23	150:2 152:5	413:10,16,18	520:4,7,12
458:8 459:9 woman's 159:9 430:21 431:18 82:3 102:7 460:13 461:16 306:6,21 433:9 434:20 126:9 157:10 462:1,17 463:9 women 6:13 436:22 447:3 200:8 232:2 463:21 464:21 28:4 81:11 452:15 453:8 359:2 484:23 465:8,16,20 126:3 130:15 453:15 455:11 wording 78:23 466:7 468:14 130:15 146:5 456:6 463:15 79:23 words 17:24 470:15 472:7 150:1 153:12 476:21 505:1 40:1 64:19 40:1 64:19 472:21 473:6 153:14 165:24 507:9,14 508:2 144:11 223:12 529:4 476:15 478:15 168:21 169:12 521:23 522:9 work 16:6,12 479:6 481:6,16 182:17,19 524:22 16:20 17:4 19:2 488:143 485:1 185:6,11 24:7 25:18 65:6 21:18,21 22:22 23:5,7,10 24:9 490:4,14 209:10 211:9 211:3 265:8 24:23 25:7,18 499:2 501:17 324:22 325:8 304:3 328:8 26:15,18,22 502:13 513:8 331:24 332:8 wonder 398:	455:7,15	307:4,15	415:13,20	521:6,9,17
460:13 461:16 306:6,21 433:9 434:20 126:9 157:10 462:1,17 463:9 women 6:13 436:22 447:3 200:8 232:2 463:21 464:21 28:4 81:11 452:15 453:8 359:2 484:23 465:8,16,20 126:3 130:15 453:15 455:11 wording 78:23 466:7 468:14 130:15 146:5 456:6 463:15 yording 78:23 469:17,21 149:11,16,19 464:4 476:11 yords 17:24 470:15 472:7 150:1 153:12 476:21 505:1 40:1 64:19 472:21 473:6 153:14 165:24 507:9,14 508:2 144:11 223:12 473:17 475:19 167:22 168:3 508:23 521:17 529:4 479:6 481:6,16 182:17,19 524:22 york 16:6,12 482:15,19 183:12 184:24 yomen's 23:17 19:9 20:13 484:13 485:1 185:6,11 24:7 25:18 65:6 21:18,21 22:22 488:8 489:17 208:18 209:4 65:14 210:7 23:5,7,10 24:9 490:4,14 209:10 211:9 211:3 265:8 24:23 25:7,18 499:2 497:4,8 282:3,4 302:19 304:3 328:8 29:6,13	456:21 457:12	449:16	416:3 429:1	word 31:20
462:1,17 463:9 women 6:13 436:22 447:3 200:8 232:2 463:21 464:21 28:4 81:11 452:15 453:8 359:2 484:23 465:8,16,20 126:3 130:15 453:15 455:11 wording 78:23 466:7 468:14 130:15 146:5 456:6 463:15 79:23 469:17,21 149:11,16,19 464:4 476:11 words 17:24 470:15 472:7 150:1 153:12 476:21 505:1 40:1 64:19 472:21 473:6 153:14 165:24 507:9,14 508:2 144:11 223:12 473:17 475:19 167:22 168:3 508:23 521:17 529:4 479:6 481:6,16 182:17,19 524:22 work 16:6,12 479:6 481:6,16 182:17,19 524:22 16:20 17:4 19:2 488:8 489:17 208:18 209:4 65:14 210:7 23:5,7,10 24:9 490:4,14 209:10 211:9 211:3 265:8 24:23 25:7,18 499:2 501:17 324:22 325:8 412:9 30:16 41:24 499:2 501:17 324:22 325:8 412:9 30:16 41:24 502:13 513:8 331:24 332:8 wonder 398:19 45:4,7 46:2	458:8 459:9	woman's 159:9	430:21 431:18	82:3 102:7
463:21 464:21 28:4 81:11 452:15 453:8 359:2 484:23 465:8,16,20 126:3 130:15 453:15 455:11 wording 78:23 466:7 468:14 130:15 146:5 456:6 463:15 79:23 469:17,21 149:11,16,19 464:4 476:11 words 17:24 470:15 472:7 150:1 153:12 476:21 505:1 40:1 64:19 472:21 473:6 153:14 165:24 507:9,14 508:2 144:11 223:12 473:17 475:19 167:22 168:3 508:23 521:17 529:4 476:15 478:15 168:21 169:12 521:23 522:9 work 16:6,12 479:6 481:6,16 182:17,19 524:22 work 16:6,12 482:15,19 183:12 184:24 women's 23:17 19:9 20:13 484:13 485:1 185:6,11 24:7 25:18 65:6 21:18,21 22:22 488:8 489:17 208:18 209:4 65:14 210:7 23:5,7,10 24:9 490:4,14 209:10 211:9 211:3 265:8 24:23 25:7,18 499:2 501:17 324:22 325:8 412:9 30:16 41:24 502:13 513:8 331:24 332:8 wonder 398:19 45:4,7 46:2	460:13 461:16	306:6,21	433:9 434:20	126:9 157:10
465:8,16,20 126:3 130:15 453:15 455:11 wording 78:23 466:7 468:14 130:15 146:5 456:6 463:15 79:23 469:17,21 149:11,16,19 464:4 476:11 words 17:24 470:15 472:7 150:1 153:12 476:21 505:1 40:1 64:19 472:21 473:6 153:14 165:24 507:9,14 508:2 144:11 223:12 473:17 475:19 167:22 168:3 508:23 521:17 529:4 476:15 478:15 168:21 169:12 521:23 522:9 work 16:6,12 479:6 481:6,16 182:17,19 524:22 work 16:6,12 482:15,19 183:12 184:24 women's 23:17 19:9 20:13 488:8 489:17 208:18 209:4 65:14 210:7 23:57,10 24:9 490:4,14 209:10 211:9 211:3 265:8 24:23 25:7,18 494:17 495:11 211:10 219:15 282:2 289:15 26:15,18,22 495:22 497:4,8 282:3,4 302:19 304:3 328:8 29:6,13,20 30:4 499:2 501:17 324:22 325:8 412:9 30:16 41:24 502:13 513:8 331:24 332:8 wonder 398:19 45:4,7 46:2<	462:1,17 463:9	women 6:13	436:22 447:3	200:8 232:2
466:7 468:14 130:15 146:5 456:6 463:15 79:23 469:17,21 149:11,16,19 464:4 476:11 words 17:24 470:15 472:7 150:1 153:12 476:21 505:1 40:1 64:19 472:21 473:6 153:14 165:24 507:9,14 508:2 144:11 223:12 473:17 475:19 167:22 168:3 508:23 521:17 529:4 476:15 478:15 168:21 169:12 521:23 522:9 work 16:6,12 479:6 481:6,16 182:17,19 524:22 l6:20 17:4 19:2 482:15,19 183:12 184:24 women's 23:17 19:9 20:13 484:13 485:1 185:6,11 24:7 25:18 65:6 21:18,21 22:22 488:8 489:17 208:18 209:4 65:14 210:7 23:5,7,10 24:9 490:4,14 201:10 219:15 282:2 289:15 26:15,18,22 495:22 497:4,8 282:3,4 302:19 304:3 328:8 29:6,13,20 30:4 499:2 501:17 324:22 325:8 412:9 30:16 41:24 502:13 513:8 331:24 332:8 wonder 398:19 45:4,7 46:2 517:23 519:16 347:11 353:6 284:11 285:2	463:21 464:21	28:4 81:11	452:15 453:8	359:2 484:23
469:17,21 149:11,16,19 464:4 476:11 words 17:24 470:15 472:7 150:1 153:12 476:21 505:1 40:1 64:19 472:21 473:6 153:14 165:24 507:9,14 508:2 144:11 223:12 473:17 475:19 167:22 168:3 508:23 521:17 529:4 479:6 481:6,16 182:17,19 524:22 work 16:6,12 482:15,19 183:12 184:24 women's 23:17 19:9 20:13 484:13 485:1 185:6,11 24:7 25:18 65:6 21:18,21 22:22 488:8 489:17 208:18 209:4 65:14 210:7 23:5,7,10 24:9 490:4,14 209:10 211:9 211:3 265:8 24:23 25:7,18 494:17 495:11 211:10 219:15 282:2 289:15 26:15,18,22 495:22 497:4,8 282:3,4 302:19 304:3 328:8 29:6,13,20 30:4 499:2 501:17 324:22 325:8 412:9 30:16 41:24 502:13 513:8 331:24 332:8 wonder 398:19 45:4,7 46:2 517:23 519:16 347:11 353:6 280:23 282:14 60:1,4,8 73:13 519:19 520:14 353:21 354:5 <t< td=""><td>465:8,16,20</td><td>126:3 130:15</td><td>453:15 455:11</td><td>wording 78:23</td></t<>	465:8,16,20	126:3 130:15	453:15 455:11	wording 78:23
470:15 472:7 150:1 153:12 476:21 505:1 40:1 64:19 472:21 473:6 153:14 165:24 507:9,14 508:2 144:11 223:12 473:17 475:19 167:22 168:3 508:23 521:17 529:4 476:15 478:15 168:21 169:12 521:23 522:9 work 16:6,12 479:6 481:6,16 182:17,19 524:22 16:20 17:4 19:2 482:15,19 183:12 184:24 women's 23:17 19:9 20:13 484:13 485:1 185:6,11 24:7 25:18 65:6 21:18,21 22:22 488:8 489:17 208:18 209:4 65:14 210:7 23:5,7,10 24:9 490:4,14 209:10 211:9 211:3 265:8 24:23 25:7,18 494:17 495:11 211:10 219:15 282:2 289:15 26:15,18,22 495:22 497:4,8 282:3,4 302:19 304:3 328:8 29:6,13,20 30:4 499:2 501:17 324:22 325:8 412:9 30:16 41:24 502:13 513:8 331:24 332:8 wonder 398:19 45:4,7 46:2 517:23 519:16 347:11 353:6 284:11 285:2 75:1 77:20 81:2 520:18 521:1 370:15,21,22 287:14,18 <	466:7 468:14	130:15 146:5	456:6 463:15	79:23
472:21 473:6 153:14 165:24 507:9,14 508:2 144:11 223:12 473:17 475:19 167:22 168:3 508:23 521:17 529:4 476:15 478:15 168:21 169:12 521:23 522:9 work 16:6,12 479:6 481:6,16 182:17,19 524:22 16:20 17:4 19:2 482:15,19 183:12 184:24 women's 23:17 19:9 20:13 484:13 485:1 185:6,11 24:7 25:18 65:6 21:18,21 22:22 488:8 489:17 208:18 209:4 65:14 210:7 23:5,7,10 24:9 490:4,14 209:10 211:9 211:3 265:8 24:23 25:7,18 494:17 495:11 211:10 219:15 282:2 289:15 26:15,18,22 495:22 497:4,8 282:3,4 302:19 304:3 328:8 29:6,13,20 30:4 499:2 501:17 324:22 325:8 412:9 30:16 41:24 502:13 513:8 331:24 332:8 wonder 398:19 45:4,7 46:2 517:23 519:16 347:11 353:6 280:23 282:14 60:1,4,8 73:13 519:19 520:14 353:21 354:5 284:11 285:2 75:1 77:20 81:2 520:18 521:1 370:15,21,22 287:14,18	469:17,21	149:11,16,19	464:4 476:11	words 17:24
473:17 475:19 167:22 168:3 508:23 521:17 529:4 476:15 478:15 168:21 169:12 521:23 522:9 work 16:6,12 479:6 481:6,16 182:17,19 524:22 16:20 17:4 19:2 482:15,19 183:12 184:24 women's 23:17 19:9 20:13 484:13 485:1 185:6,11 24:7 25:18 65:6 21:18,21 22:22 488:8 489:17 208:18 209:4 65:14 210:7 23:5,7,10 24:9 490:4,14 209:10 211:9 211:3 265:8 24:23 25:7,18 494:17 495:11 211:10 219:15 282:2 289:15 26:15,18,22 495:22 497:4,8 282:3,4 302:19 304:3 328:8 29:6,13,20 30:4 499:2 501:17 324:22 325:8 412:9 30:16 41:24 502:13 513:8 331:24 332:8 wonder 398:19 45:4,7 46:2 514:14,17,20 337:16,19 woolen 7:17 55:8,15 57:6 517:23 519:16 347:11 353:6 280:23 282:14 60:1,4,8 73:13 519:19 520:14 353:21 354:5 284:11 285:2 75:1 77:20 81:2 520:18 521:1 370:15,21,22 287:14,18 <td< td=""><td>470:15 472:7</td><td>150:1 153:12</td><td>476:21 505:1</td><td>40:1 64:19</td></td<>	470:15 472:7	150:1 153:12	476:21 505:1	40:1 64:19
476:15 478:15 168:21 169:12 521:23 522:9 work 16:6,12 479:6 481:6,16 182:17,19 524:22 16:20 17:4 19:2 482:15,19 183:12 184:24 women's 23:17 19:9 20:13 484:13 485:1 185:6,11 24:7 25:18 65:6 21:18,21 22:22 488:8 489:17 208:18 209:4 65:14 210:7 23:5,7,10 24:9 490:4,14 209:10 211:9 211:3 265:8 24:23 25:7,18 494:17 495:11 211:10 219:15 282:2 289:15 26:15,18,22 495:22 497:4,8 282:3,4 302:19 304:3 328:8 29:6,13,20 30:4 499:2 501:17 324:22 325:8 412:9 30:16 41:24 502:13 513:8 331:24 332:8 wonder 398:19 45:4,7 46:2 514:14,17,20 337:16,19 woolen 7:17 55:8,15 57:6 517:23 519:16 347:11 353:6 280:23 282:14 60:1,4,8 73:13 519:19 520:14 353:21 354:5 287:14,18 89:10 99:2 522:12 523:13 371:5,9,13,24 288:17 294:7,8 150:21 173:19 526:5 529:11 372:5 373:8 493:15,22,22	472:21 473:6	153:14 165:24	507:9,14 508:2	144:11 223:12
479:6 481:6,16 182:17,19 524:22 16:20 17:4 19:2 482:15,19 183:12 184:24 women's 23:17 19:9 20:13 484:13 485:1 185:6,11 24:7 25:18 65:6 21:18,21 22:22 488:8 489:17 208:18 209:4 65:14 210:7 23:5,7,10 24:9 490:4,14 209:10 211:9 211:3 265:8 24:23 25:7,18 494:17 495:11 211:10 219:15 282:2 289:15 26:15,18,22 495:22 497:4,8 282:3,4 302:19 304:3 328:8 29:6,13,20 30:4 499:2 501:17 324:22 325:8 412:9 30:16 41:24 502:13 513:8 331:24 332:8 wonder 398:19 45:4,7 46:2 514:14,17,20 337:16,19 wolen 7:17 55:8,15 57:6 517:23 519:16 347:11 353:6 280:23 282:14 60:1,4,8 73:13 519:19 520:14 353:21 354:5 284:11 285:2 75:1 77:20 81:2 520:18 521:1 370:15,21,22 287:14,18 89:10 99:2 522:12 523:13 371:5,9,13,24 288:17 294:7,8 150:21 173:19 529:18 531:17 375:16 387:24 493:24 494:22 206:8 212:10 532:16 533:24 390:20,20	473:17 475:19	167:22 168:3	508:23 521:17	529:4
482:15,19 183:12 184:24 women's 23:17 19:9 20:13 484:13 485:1 185:6,11 24:7 25:18 65:6 21:18,21 22:22 488:8 489:17 208:18 209:4 65:14 210:7 23:5,7,10 24:9 490:4,14 209:10 211:9 211:3 265:8 24:23 25:7,18 494:17 495:11 211:10 219:15 282:2 289:15 26:15,18,22 495:22 497:4,8 282:3,4 302:19 304:3 328:8 29:6,13,20 30:4 499:2 501:17 324:22 325:8 412:9 30:16 41:24 502:13 513:8 331:24 332:8 wonder 398:19 45:4,7 46:2 514:14,17,20 337:16,19 woolen 7:17 55:8,15 57:6 517:23 519:16 347:11 353:6 280:23 282:14 60:1,4,8 73:13 519:19 520:14 353:21 354:5 284:11 285:2 75:1 77:20 81:2 520:18 521:1 370:15,21,22 287:14,18 89:10 99:2 522:12 523:13 371:5,9,13,24 288:17 294:7,8 150:21 173:19 526:5 529:11 375:16 387:24 493:24 494:22 206:8 212:10 532:16 533:24 390:20,20 494:22 495:6 238:14 245:2,2 539:6 391:16,19,22 4	476:15 478:15	168:21 169:12	521:23 522:9	work 16:6,12
484:13 485:1 185:6,11 24:7 25:18 65:6 21:18,21 22:22 488:8 489:17 208:18 209:4 65:14 210:7 23:5,7,10 24:9 490:4,14 209:10 211:9 211:3 265:8 24:23 25:7,18 494:17 495:11 211:10 219:15 282:2 289:15 26:15,18,22 495:22 497:4,8 282:3,4 302:19 304:3 328:8 29:6,13,20 30:4 499:2 501:17 324:22 325:8 412:9 30:16 41:24 502:13 513:8 331:24 332:8 wonder 398:19 45:4,7 46:2 514:14,17,20 337:16,19 woolen 7:17 55:8,15 57:6 517:23 519:16 347:11 353:6 280:23 282:14 60:1,4,8 73:13 519:19 520:14 353:21 354:5 284:11 285:2 75:1 77:20 81:2 520:18 521:1 370:15,21,22 287:14,18 89:10 99:2 522:12 523:13 371:5,9,13,24 288:17 294:7,8 150:21 173:19 526:5 529:11 375:16 387:24 493:24 494:22 206:8 212:10 532:16 533:24 390:20,20 494:22 495:6 238:14 245:2,2 539:6 391:16,19,22 495:17,18,19 245:11 264:20	479:6 481:6,16	182:17,19	524:22	16:20 17:4 19:2
488:8 489:17 208:18 209:4 65:14 210:7 23:5,7,10 24:9 490:4,14 209:10 211:9 211:3 265:8 24:23 25:7,18 494:17 495:11 211:10 219:15 282:2 289:15 26:15,18,22 495:22 497:4,8 282:3,4 302:19 304:3 328:8 29:6,13,20 30:4 499:2 501:17 324:22 325:8 412:9 30:16 41:24 502:13 513:8 331:24 332:8 wonder 398:19 45:4,7 46:2 514:14,17,20 337:16,19 woolen 7:17 55:8,15 57:6 517:23 519:16 347:11 353:6 280:23 282:14 60:1,4,8 73:13 519:19 520:14 353:21 354:5 284:11 285:2 75:1 77:20 81:2 520:18 521:1 370:15,21,22 287:14,18 89:10 99:2 522:12 523:13 371:5,9,13,24 288:17 294:7,8 150:21 173:19 529:18 531:17 375:16 387:24 493:24 494:22 206:8 212:10 532:16 533:24 390:20,20 494:22 495:6 238:14 245:2,2 539:6 391:16,19,22 495:17,18,19 245:11 264:20	482:15,19	183:12 184:24	women's 23:17	19:9 20:13
490:4,14209:10 211:9211:3 265:824:23 25:7,18494:17 495:11211:10 219:15282:2 289:1526:15,18,22495:22 497:4,8282:3,4 302:19304:3 328:829:6,13,20 30:4499:2 501:17324:22 325:8412:930:16 41:24502:13 513:8331:24 332:8wonder 398:1945:4,7 46:2514:14,17,20337:16,19woolen 7:1755:8,15 57:6517:23 519:16347:11 353:6280:23 282:1460:1,4,8 73:13519:19 520:14353:21 354:5284:11 285:275:1 77:20 81:2520:18 521:1370:15,21,22287:14,1889:10 99:2522:12 523:13371:5,9,13,24288:17 294:7,8150:21 173:19526:5 529:11372:5 373:8493:15,22,22189:21 197:1529:18 531:17375:16 387:24493:24 494:22206:8 212:10532:16 533:24390:20,20494:22 495:6238:14 245:2,2539:6391:16,19,22495:17,18,19245:11 264:20	484:13 485:1	185:6,11	24:7 25:18 65:6	21:18,21 22:22
494:17 495:11211:10 219:15282:2 289:1526:15,18,22495:22 497:4,8282:3,4 302:19304:3 328:829:6,13,20 30:4499:2 501:17324:22 325:8412:930:16 41:24502:13 513:8331:24 332:8wonder 398:1945:4,7 46:2514:14,17,20337:16,19woolen 7:1755:8,15 57:6517:23 519:16347:11 353:6280:23 282:1460:1,4,8 73:13519:19 520:14353:21 354:5284:11 285:275:1 77:20 81:2520:18 521:1370:15,21,22287:14,1889:10 99:2522:12 523:13371:5,9,13,24288:17 294:7,8150:21 173:19526:5 529:11372:5 373:8493:15,22,22189:21 197:1529:18 531:17375:16 387:24493:24 494:22206:8 212:10532:16 533:24390:20,20494:22 495:6238:14 245:2,2539:6391:16,19,22495:17,18,19245:11 264:20	488:8 489:17	208:18 209:4	65:14 210:7	23:5,7,10 24:9
495:22 497:4,8 282:3,4 302:19 304:3 328:8 29:6,13,20 30:4 499:2 501:17 324:22 325:8 412:9 30:16 41:24 502:13 513:8 331:24 332:8 wonder 398:19 45:4,7 46:2 514:14,17,20 337:16,19 woolen 7:17 55:8,15 57:6 517:23 519:16 347:11 353:6 280:23 282:14 60:1,4,8 73:13 519:19 520:14 353:21 354:5 284:11 285:2 75:1 77:20 81:2 520:18 521:1 370:15,21,22 287:14,18 89:10 99:2 522:12 523:13 371:5,9,13,24 288:17 294:7,8 150:21 173:19 526:5 529:11 372:5 373:8 493:15,22,22 189:21 197:1 529:18 531:17 375:16 387:24 493:24 494:22 206:8 212:10 532:16 533:24 390:20,20 494:22 495:6 238:14 245:2,2 539:6 391:16,19,22 495:17,18,19 245:11 264:20	490:4,14	209:10 211:9	211:3 265:8	24:23 25:7,18
499:2 501:17324:22 325:8412:930:16 41:24502:13 513:8331:24 332:8wonder 398:1945:4,7 46:2514:14,17,20337:16,19woolen 7:1755:8,15 57:6517:23 519:16347:11 353:6280:23 282:1460:1,4,8 73:13519:19 520:14353:21 354:5284:11 285:275:1 77:20 81:2520:18 521:1370:15,21,22287:14,1889:10 99:2522:12 523:13371:5,9,13,24288:17 294:7,8150:21 173:19526:5 529:11372:5 373:8493:15,22,22189:21 197:1529:18 531:17375:16 387:24493:24 494:22206:8 212:10532:16 533:24390:20,20494:22 495:6238:14 245:2,2539:6391:16,19,22495:17,18,19245:11 264:20	494:17 495:11	211:10 219:15	282:2 289:15	26:15,18,22
502:13 513:8 331:24 332:8 wonder 398:19 45:4,7 46:2 514:14,17,20 337:16,19 woolen 7:17 55:8,15 57:6 517:23 519:16 347:11 353:6 280:23 282:14 60:1,4,8 73:13 519:19 520:14 353:21 354:5 284:11 285:2 75:1 77:20 81:2 520:18 521:1 370:15,21,22 287:14,18 89:10 99:2 522:12 523:13 371:5,9,13,24 288:17 294:7,8 150:21 173:19 526:5 529:11 372:5 373:8 493:15,22,22 189:21 197:1 529:18 531:17 375:16 387:24 493:24 494:22 206:8 212:10 532:16 533:24 390:20,20 494:22 495:6 238:14 245:2,2 539:6 391:16,19,22 495:17,18,19 245:11 264:20	495:22 497:4,8	282:3,4 302:19	304:3 328:8	29:6,13,20 30:4
514:14,17,20 337:16,19 woolen 7:17 55:8,15 57:6 517:23 519:16 347:11 353:6 280:23 282:14 60:1,4,8 73:13 519:19 520:14 353:21 354:5 284:11 285:2 75:1 77:20 81:2 520:18 521:1 370:15,21,22 287:14,18 89:10 99:2 522:12 523:13 371:5,9,13,24 288:17 294:7,8 150:21 173:19 526:5 529:11 372:5 373:8 493:15,22,22 189:21 197:1 529:18 531:17 375:16 387:24 493:24 494:22 206:8 212:10 532:16 533:24 390:20,20 494:22 495:6 238:14 245:2,2 539:6 391:16,19,22 495:17,18,19 245:11 264:20	499:2 501:17	324:22 325:8	412:9	30:16 41:24
517:23 519:16 347:11 353:6 280:23 282:14 60:1,4,8 73:13 519:19 520:14 353:21 354:5 284:11 285:2 75:1 77:20 81:2 520:18 521:1 370:15,21,22 287:14,18 89:10 99:2 522:12 523:13 371:5,9,13,24 288:17 294:7,8 150:21 173:19 526:5 529:11 372:5 373:8 493:15,22,22 189:21 197:1 529:18 531:17 375:16 387:24 493:24 494:22 206:8 212:10 532:16 533:24 390:20,20 494:22 495:6 238:14 245:2,2 539:6 391:16,19,22 495:17,18,19 245:11 264:20	502:13 513:8	331:24 332:8	wonder 398:19	45:4,7 46:2
519:19 520:14 353:21 354:5 284:11 285:2 75:1 77:20 81:2 520:18 521:1 370:15,21,22 287:14,18 89:10 99:2 522:12 523:13 371:5,9,13,24 288:17 294:7,8 150:21 173:19 526:5 529:11 372:5 373:8 493:15,22,22 189:21 197:1 529:18 531:17 375:16 387:24 493:24 494:22 206:8 212:10 532:16 533:24 390:20,20 494:22 495:6 238:14 245:2,2 539:6 391:16,19,22 495:17,18,19 245:11 264:20	514:14,17,20	337:16,19	woolen 7:17	55:8,15 57:6
520:18 521:1 370:15,21,22 287:14,18 89:10 99:2 522:12 523:13 371:5,9,13,24 288:17 294:7,8 150:21 173:19 526:5 529:11 372:5 373:8 493:15,22,22 189:21 197:1 529:18 531:17 375:16 387:24 493:24 494:22 206:8 212:10 532:16 533:24 390:20,20 494:22 495:6 238:14 245:2,2 539:6 391:16,19,22 495:17,18,19 245:11 264:20	517:23 519:16	347:11 353:6	280:23 282:14	60:1,4,8 73:13
522:12 523:13 371:5,9,13,24 288:17 294:7,8 150:21 173:19 526:5 529:11 372:5 373:8 493:15,22,22 189:21 197:1 529:18 531:17 375:16 387:24 493:24 494:22 206:8 212:10 532:16 533:24 390:20,20 494:22 495:6 238:14 245:2,2 539:6 391:16,19,22 495:17,18,19 245:11 264:20	519:19 520:14	353:21 354:5	284:11 285:2	75:1 77:20 81:2
526:5 529:11 372:5 373:8 493:15,22,22 189:21 197:1 529:18 531:17 375:16 387:24 493:24 494:22 206:8 212:10 532:16 533:24 390:20,20 494:22 495:6 238:14 245:2,2 539:6 391:16,19,22 495:17,18,19 245:11 264:20	520:18 521:1	370:15,21,22	287:14,18	89:10 99:2
529:18 531:17 375:16 387:24 493:24 494:22 206:8 212:10 532:16 533:24 390:20,20 494:22 495:6 238:14 245:2,2 539:6 391:16,19,22 495:17,18,19 245:11 264:20	522:12 523:13	371:5,9,13,24	288:17 294:7,8	150:21 173:19
532:16 533:24 390:20,20 494:22 495:6 238:14 245:2,2 539:6 391:16,19,22 495:17,18,19 245:11 264:20	526:5 529:11	372:5 373:8	493:15,22,22	189:21 197:1
539:6 391:16,19,22 495:17,18,19 245:11 264:20	529:18 531:17	375:16 387:24	493:24 494:22	206:8 212:10
	532:16 533:24	390:20,20	494:22 495:6	238:14 245:2,2
witnesses 197:9 391:23 392:15 495:22 496:8,9 267:1,2 305:16	539:6	391:16,19,22	495:17,18,19	245:11 264:20
, , , , , , , , , , , , , , , , , , , ,	witnesses 197:9	391:23 392:15	495:22 496:8,9	267:1,2 305:16
377:17 392:18 409:7 516:19,22,24 307:13 332:24	377:17	392:18 409:7	516:19,22,24	307:13 332:24
411:21,21 517:2,20 360:6 392:20		411:21,21	517:2,20	360:6 392:20

Document 33008-56 PageID: 211460

[work - yeah] Page 111

393:1,2,14,18	318:20 335:21	90:15 97:16	164:9,13
393:20 394:1,2	336:23 338:10	100:1,4,13	179:10 180:16
395:11 411:2	383:17 384:13	108:3 125:6	180:20,23
435:14 490:11	385:16 386:3	128:12 154:9	188:17 191:6,7
529:6	387:10 400:4	154:15 172:4	192:8 193:21
worked 35:13	430:18 431:14	172:12 174:5	194:15,15,15
35:16 36:20,23	440:4 511:5	174:18 175:7	195:2,13,13
48:8 68:10	writes 106:18	176:19 177:20	196:15 200:21
71:20 306:2	111:6 126:21	178:9,10 200:8	201:14 223:11
393:17	127:11 128:1	378:4 380:9	224:2 225:23
working 19:6	129:4 130:4	381:13 382:20	226:12 228:19
22:10 50:18	131:10,22	383:1 385:20	232:19 238:7
55:19,24 56:14	134:8 258:9	386:2 389:15	239:21 240:12
79:8 80:22	475:6 520:10	422:7 423:19	240:23 242:13
208:14 212:13	writing 23:4	424:15 449:22	243:11 247:11
212:17 221:10	57:16 79:5	451:10 455:3	249:2 261:1
264:24 393:23	244:4 383:7	464:6 466:8	263:15,24
409:17	writings 197:23	472:12 473:9	265:21 266:10
works 119:13	198:4	474:10	267:20 269:1,1
124:3,5	written 78:16	X	269:23 270:12
workshop 5:23	80:16 82:7	xrd 241:19	281:2,3,3
36:10 91:4,23	86:17 89:18		283:13,22
92:16 94:4	173:18,24	y	284:24 285:5
253:4,10	174:12 192:6	yeah 18:16 28:3	289:10 296:17
310:18 512:22	205:19 243:3	36:8,16 59:13	297:5 304:10
513:1	247:1 320:11	63:19 64:6	304:17 321:16
world 465:12	369:1 373:21	65:22 66:20	322:17 325:23
worried 222:18	375:10 378:6	73:4 77:7,18	326:17 327:5
worries 299:23	380:21 472:10	87:17 92:5	328:24 329:22
	360.21 472.10		320.24 327.22
379:12	473:20	102:18 105:8	332:21 339:7
379:12 worse 478:10		102:18 105:8 106:17 107:2,2	
	473:20	102:18 105:8 106:17 107:2,2 109:12,12	332:21 339:7
worse 478:10	473:20 wrong 283:4,4	102:18 105:8 106:17 107:2,2 109:12,12 121:19 124:17	332:21 339:7 340:2,3 344:3,4
worse 478:10 worth 248:3	473:20 wrong 283:4,4 398:20 496:21	102:18 105:8 106:17 107:2,2 109:12,12 121:19 124:17 125:21 127:18	332:21 339:7 340:2,3 344:3,4 345:18 350:15
worse 478:10 worth 248:3 write 72:9	473:20 wrong 283:4,4 398:20 496:21 497:6 510:5	102:18 105:8 106:17 107:2,2 109:12,12 121:19 124:17	332:21 339:7 340:2,3 344:3,4 345:18 350:15 350:20 352:6

389:3,3,5	337:18 356:6
393:10 398:15	356:19 390:11
398:17,22	412:7,10 413:7
401:16 403:5	414:2 418:12
408:22 413:15	418:16 423:7
420:5 421:18	423:20 433:24
426:15 438:17	434:9 452:17
443:20 453:3	454:23 472:13
470:19 481:21	494:13,18
492:21,23	498:18,19,19
495:3,8 496:20	523:22
496:23 497:8	yep 92:19 93:2
501:2 514:19	99:10 124:24
515:3,14	125:5,11
516:23,23,23	126:16,16
522:6 527:1	161:21 163:8
530:5,12,14,14	171:15 326:17
531:17,23	399:1 516:4
534:19	523:17
year 22:6,7	yesterday 53:8
24:11,13,15,16	53:12,13,14,17
59:24 164:24	yield 442:1
165:11,19	Z
390:8 391:2	zoom 48:10
years 25:21	51:14 52:7,16
59:24 82:22	52:17,18 53:23
119:24 153:19	54:2 55:4
153:22,24	J4.2 JJ.4
154:5,5,21,22	
154:24 183:13	
191:22 201:18	
226:6,11,23	
269:11 296:9	
297:14,14	
302:19 331:19	
334:15 337:3	

Federal Rules of Civil Procedure Rule 30

- (e) Review By the Witness; Changes.
- (1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
- (A) to review the transcript or recording; and
- (B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.
- (2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

DISCLAIMER: THE FOREGOING FEDERAL PROCEDURE RULES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE ABOVE RULES ARE CURRENT AS OF APRIL 1, 2019. PLEASE REFER TO THE APPLICABLE FEDERAL RULES OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.

VERITEXT LEGAL SOLUTIONS

COMPANY CERTIFICATE AND DISCLOSURE STATEMENT

Veritext Legal Solutions represents that the

foregoing transcript is a true, correct and complete

transcript of the colloquies, questions and answers

as submitted by the court reporter. Veritext Legal

Solutions further represents that the attached

exhibits, if any, are true, correct and complete

documents as submitted by the court reporter and/or

attorneys in relation to this deposition and that

the documents were processed in accordance with

our litigation support and production standards.

Veritext Legal Solutions is committed to maintaining the confidentiality of client and witness information, in accordance with the regulations promulgated under the Health Insurance Portability and Accountability Act (HIPAA), as amended with respect to protected health information and the Gramm-Leach-Bliley Act, as amended, with respect to Personally Identifiable Information (PII). Physical transcripts and exhibits are managed under strict facility and personnel access controls. Electronic files of documents are stored in encrypted form and are transmitted in an encrypted

fashion to authenticated parties who are permitted to access the material. Our data is hosted in a Tier 4 SSAE 16 certified facility.

Veritext Legal Solutions complies with all federal and State regulations with respect to the provision of court reporting services, and maintains its neutrality and independence regardless of relationship or the financial outcome of any litigation. Veritext requires adherence to the foregoing professional and ethical standards from all of its subcontractors in their independent contractor agreements.

Inquiries about Veritext Legal Solutions'
confidentiality and security policies and practices
should be directed to Veritext's Client Services
Associates indicated on the cover of this document or
at www.veritext.com.